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TO THE HIGH AND

MIGHTY CHARLES, ONLY SONNE OF HIS MAIESTY, PRINCE OF

Wales, DVKE of Cornewall, Yorke, and Albany, MAR-QVISE of Ormont, EARLE of Chefter, and Ross, Lord of Admanach, and KNIGHT of the most noble or der of the Garter.



Ow much the Gracians excelled all other Nations in the Sciences called Liberall, is better knowne in generall, then needfull at this ume particularly to be rehearfed to your High neffe. The Romans themselves albeir otherwise ambitious, and out of meafure thirsty of honour, and challen

ging to themselves the highest degree of gravity, constancie, greatnesse of minde, wisedome, faith, and skill of war, contended not herein, but freely lest them the possession of that praise vinquestioned. For warre it is not my purpose at this time to make comparison, or commit the two Nations together. The controversie is already moved by other, and hangeth vindecided in the Court of learning. Thus much, me thinks, I may truly affirme, that the Gravians were the first, that out of variety of actions, and long experience reduced the knowledge of Armes into an Arte, and gave precepts for the orderly moving a Battase, and taught, that the moments of victory rested not in the hands

hands of multitudes, but in a few men rightly instructed to manage armes, and trained vp in the observation of the discipline of the field. In which regard they had almost in all Cities amongst them Masters of Armes, whom they called Tatticks, which delivered the Arte Military to such, as were defirous to learne. Out of whose Schooles issued those chiefs of warre in number so many, in skill so exquisite, in valor so peerelesse, in all vertues beseeming great Generals so admirable, that no Nation of Europe euen to this day hath been able to match, much lesse to ouer-match their fame, and glory. And the time was when the Lacedemonians exceeded the rest in Martiall skill, and were thought to be the best Souldiers of Greece; by meanes whereof they advanced themselves to the Principality of Greece, which they held with fuch reputation, that an enes mie by the space of 500 yeares was not seene within their Territory. Till at last growing insolent, and surfeiting of and being not able to brooke their owne fortune, they fought to oppresse, and with wrong and force to possesse the City of Thebes, and stirred vp Epaminondas a Theban by birth, and from his tender yeares nourished by his fa thers care in the study of Philosophy, and the science of Armes, to oppose against them, who in two battailes, the one at Leustra, the other at Mantinea so broke their forces, that from that day forth they were neuer able to recouer their wonted authority, and power in the field. Philip the sonne of Amyntas King of Macedonia, being but a private man, was deliuered as a hostage to the Thebans, & brought, vp in the same house and learning with Epaminondas. He afterward became King of Macedonia; which being of it selse but a poorekingdome, and before his time sometimes, kept under by the Athenians, sometimes by the Lacedemonia ens, sometimes by the Thebans, & finding it at his entrance

to the Crowne harried, and spoiled by the Paonians, and forced to pay tribute by the flyrians, by erecting a new arte, and discipline of warre, to which he exercised, and enured his Macedonians, he not only freed his Countrey from the Barbarous nations, but also ouercame the Gracians, accounted the only Masters of armes till that day, and caused himfelse to be declared Generall of Greece against the Persians: against whom after he had made his full preparation, he refolued to go in person. But being preuented by death, he left the fuccession of his kingdom, and execution of his designes to Alexander his sonne, whom he had before curiously instructed in the discipline of Armes invented by himselfe. The same Alexander (being about 20 yeares of age) after he had vange shed Darius in 2 great battailes in 12 yeeres ran through, and subjected the spacious, rich, and flourishing kingdomes of Asia, even as far, as the East Indies, and with terror of armes made the whole world to tremble at his name. His kingdomes were after his death divided amongst many Successors, who by the same Arte military easily maintained the possession of their conquests. This Arte is it, that I at this time present vnto your Highnesse. It was comprised in writing by many, and yet none of their works' attained our age, but only that of Ælian; who hathin a small volume so expressed the arte, that nothing is more short, nothing more linked together in coherence of precepts, and yet diftinguished with such variety, that all motions requifite, or to be vied in a Battaile are fully expressed therin. Helian lived in the time of Adrianthe Emperor. How much the booke was of ancient time esteemed may appeare by this alone, that Leo a succeeding Emperor setting downe Martiall instructions for the government of his Empire, transcribeth whole passages out of Ælian,& whensoeuer he citeth, or nameth the Tadicks, he giveth still the first place vnto Ælian. Howbeit

Howbeit the practise of Aelians precepts hath long lien wrapped vp in darknes, & buried (as it were) in the ruines of time, vntill it was reuiued, & restored to light not long since in the vnited Prouinces of the low-Countries, which Countries at this day are the Schoole of war, whither the most Martiall spirits of Europe resort to lay downe the Apprentiship of their seruice in Armes, and it was reuiued by the direction of that Heroicall Prince Maurice of Nassau, Prince of Orange, Gouernour, and Generall of the faid Countries, a Prince borne and bred vp in Armes, and (beside the completenes of his other eminent vertues) for skill, experience, judgement, and military literature comparable to the greatest Generals, that euer were. I have of late adventured to take from Ælian his Greekish cloake, and to put him in English apparell, that in that habit he might attend your Highnesse, and be ready with his seruice, in case he were thought worthy of employment. He had before for his Patron Adrian, an Emperor, and Ruler of the Roman world. Now he humbly craueth your HIGHNESS E fauour for his protection, who as in Princely descent, and succession of Royall blood you are farre superior, so in vertues worthy of your birth, and yeares, and in all hopefull expectations are you nothing inserior to Adrian. It may please your Highnesse to regard him with a gratious eye, and to esteeme the Presentor of him your faithfull bedesman, that will not cease to pray to the mighty God of hosts, to give you conquest ouer all your enemies. From my Garrison at Woudrichem in Holland the 20 of September 1616.

Your Highnesse most humbly denoted,

Io: BINGHAM.



or art of embattailing an army after the Grecian manner.



HE Grecian arte of embattailing an army (most mightie Augustus Cesar Adrian) the antiquitie whereof reacheth back to the age wherein Homer lyved, hath beene committed to wryting by many, whose skill in the Mathematicks was not reputed equal with

myne: whereby I was induced to thinke it possible for me so to deliver the groundes therof, that posteritie should rather regard and esteeme my labors, then theirs, that before me haue handled the same argument. But weighing againe myn own ignorance (for I must confesse a truth) in that skill & practise of armes, which is now in esteeme among the Romaines, I was by seare with-held from reviving a science half dead, as it were, and since the invention of that other by your auncestors, altogeather out of request and vnregarded. Notwithstanding comming afterward to Formie to doe my dutie to the 'Emperour Nerva your maiesties father, It was my fortune to spend sometime with 'Frontine' a man of Consular dignitie, and of great reputacion by reason of his experience

in militarie affaires; and after conference with him perceiving he imparted no lesse studie to the Grecian, then to the Romaine discipline of armes I begannot to despise that of the Grecians, conceiving that Frontine would not so much affect it, if hee thought it inferiour to the Romaine. Having therefore in times past framed a project of this worke, but yet not daring then to publish it in regard of 'your majesties in comparable valour, and experience, which make you famous aboue ali Generalis without exception, that euer were: I haue of late taken it againe in hand, & finished it, being (if I deceaue not my felf) a worke both worthy to be accompted of, & of sufficiencie, especially with such as are studious of the arte, to obscure the credit of the auncient Tallicks. For in respect of the perspicuitie I dare bouldlie affirme, the reader shall more advantage himselse by this little volume, then by al their writings: such is the order and methode, I haue followed. Howbeit I durst scarcely offer it to your majestie who haue beene Generall of so greate warres, least happily it proue too foo slender a present, & altogether vnworthy of your facred viewe. And yet if your majestie shall bee pleased to thinke of it, as of a Greekish Theorie, or a various discourse it may bee, it will give you some little delight, the rather because you may therin behold 4 Alexander the Macedons manner of marshalling his fields. And for that I am not ignorant of your majestiesmore weightie affaires, I haue reparted it into chapters, to the end you may without reading the booke in few wordes take the somme of that, which is to bee delivered, and without losse of time find the places you are desirous to peruse.

He Tacticks] As Taxis in a general sence signifieth order, so Tacticos is as much, as pertenning to order: but specially taken, it signifieth parteyning to order of a battaile, or to the embattailing of an army. Hereof the arte of embattailing an army is called Tactice, and hee, that is skillful, and experienced in that arte. Tacticos (2 Vegetius na- 2 Veget, prolog meth him magistrum armorum) and the books written of the arte, Tactica. And that this is the true fignification of the word may appeare by Xenophons Cyropadia, where the arte Tactick is distinguished from the arte Imperatory, or arte of a Generall. Hee induceth Cyrus, in a discourse with his father speaking thus: b In the end you asked b xenoph. cymee what my master taught mee, when hee professed to teach the art Imperatory. And when I answered, the Tacticks, you smiled, and as ked particulerly, what the Tacticks availed without provision of thinges necessary to line by: what without preservacion of health? what without knowledge of arts invented for the vie of warre? what without obedience? so that you plainely shewed, that the Tacticks are but a small portion of the arte Imperatory, or of commanding an army. Thus Xenophon: making a difference between the arte Imperatory, or the arte Tactick. And in other place hee speaketh yet more particulerly: Cy- e Xenophon cyrus, saydhee, este ned it not the duty of a Tactick to enlarge onely, or to stretch out in length, the front of his Phalange, or to drawe it out in depth, or to reduce it from a winge to a Phalange, or to countermarche readily, the enemy shewing himselfe on the right, or lest hand, or in the rear, but to divide it, when need is, & to place euery part for most advantage, & to leade it on speedily, when occasion is of prevention. Yet sometimes in a generall signification books entreating of the whole arte of warr are called Tacticks: as the Constitutions military of the Emperour Leo are entituled Tactica Leonis, perhaps of the best parte, because the d arte of embattailing an army hath alwayes been esteemed the chiefest point of skill in a Plue in Philoa Generall. Howbeit Elianin his title of this booke taketh Tactice in the streighter e intra cap 1. fignification: as appeareth by the definitions, he alleageth out of Eneas and Polibius: of whome the first defineth the art Tactick to bee a science of warlick motion; with whome also , Leo agreeth: the other , to bee a skill, whereby , a man taking a multi-f Leo. cap. t. tude serviceable, ordereth it into files, and bodies, and instructeth it sufficiently in all thinges apperteining to warre. Which two definitions comprehend in fewe words the argument of the whole booke. For first Elian intreateth of levieng, & of arming men, then of filing, next of joyning files, and making bodies, after of ordering the whole Phalange, or battaile, further of motions requisit to affront the enemy, wher forver he giveth on, whether in front, flank, or reare; laftly of marching, and of the fondry formes of battailes carieng with them advantage of charging or repulsing the enemy in your marche. He; that will further understand the boundes of this arte, let him reade in the 21 .chapter of Leo the 58 .fection. The Emperour Nerva your maiesties Father] The Emperour Nerva here

mentioned was not Nerva Cocceius, whoe succeeded Domitian, but Vlpius Traianus, who was also called Nerva, because he was adopted by Nerva Cocceius, & succeeded in the Empire. And where Elian termeth him Adrians father, indeed Adrian pretended, he was Traians sonne by adoption. But & Dio plainely denieth it & Spartian saith, some repor- g Dio & Spar ted hee was adopted by the faction of Plotina (Traians wife) by substituting addiana one to speake with a faint voice, as if it had beene Traian vpon his death-bed, whereas Traian was before departed this world. This is agreed, that he was Cosin

Notes.

german once removed to Traian, of that his father dieng, he (being but ten yeares olde) was ward to Traian (then a private man) and to one Calius Tatianus.

2 To spend some time with Frontine | Frontine heer mentioned was the same that wrote the book of Strategemes, now extant, & commonly to ned in one volume with Vegetius. Hee was aman curious in the searche of the Gracian discipline, as may be seene by his owne preface to his bookes of Strategemes: & by the testimony of Alian, & in the first chapter of this treatise, is reckoned amongest the Tactick writers. * Vegetius reportech hewas much esteemed by the Emperour I raian. Hee lived also in greate reputation in the time of Veftasian: at least if it bee hee, that Tacitus speaketh of in the life of Iulius Agricola. And yet it might bee he very well, there being noe more then twenty yeares, or certeine monthes betwixte the reigns of Traian of the reigne of Vespasian in whose time b Tack in viva Frontine is reported by b Tacitus to have overthrowne the Silures in Britaine. Alian in the next chapter calleth him Fronto. O fone Fronto, that was Consulin the third year of thereigne of Traian, I read in Dio whole saying is reported to have been: That it was ill to haue an Emperour, vnder whome noe man might haue liberty to doe any thing, but much worse to haue an Emperour, vnder whome every man might doe what hee list. But this Fronto was not Elians Fronto. Hee was called Marcus Cornelius Fronto; this (that Elian speaketh of) Iulius Frontine. And yet it is noe wonder that Frontine in latine should be called Fronto in Greek, it being voual for the Gracians to varie, and deflect a litle from the property of the latine names.

d Spertian.in

e Dio in viza Nerva.

Your majesties incomparable valor & experience \ That this praise given Adrian is not altogether without cause, may appeare by that, which a Elius Spartianus writeth in the life of Adria. His wordes have this meaning. After this, taking his journey into France, he was bowntifull to all, as he sawe cause. From thence hee passed into Germany, & being rather desirous of peace, then warre, yet hee so exercifed his fouldiers, as though warre were at hand; teaching them to indure paines & hardnesse, himselfe giving an example of military life: gladly alfo vfing Camp fare, as namely lard, & cheefe, for meate, & water mingled with vineger for drink, in imitation of Scipio Æmilianus, & of Metellus, & of Traian the author of his preferment & rifing, bestowing rewardes vpon many, honors vpon some, to encourage them to beare such things, as seemed harshe in his commaundes. And furely it was hee next Octavius, that vpheld military discipline (declyning nowe through the remissenesse of former Emperous) by ordering both the places of Commaunde, & the payes; never suffering any man to absent himselse from the Campe, but vpon just cause: measuring the worthe of Tribunes not by favour of the fouldiers, but by their owne desert; exhorting, & exciting all the rest by example of his owne vertue, whilest hee often marched twenty miles on foote, being fully armed, broke downe banquetting howses, and galleries, &vaults for coolenesse, & arbors, wheresoever hee found them in the Campe; & was seene in a plaine garment vsually; wore a baudricke not gamished with gold, buttons without gemmes; scarcely allowing an ivory handle to his sword; visited his sick souldiers in their lodgings, himselse chose out the grownd to encampe in: made noe Captaine, but a man of a strong body, noe Tribune, but with a growne beard, or of age, that by prudence, and yeares was able to fway the weight of the place : nor suffred him to take ought from the fouldier; removed all delicacies; and laftly reformed theire armes, and baggage. Hee had besides consideration of the age of souldiers, allowing none younger, then was befitting vertue; nor elder, then stood with the lawes of humanity, to bee conversant in the Campe, con-

trary to old custome, and vsage: and gaue himselfe to haue particuler knowledge of them all, and what theire number was. Furthermore hee was carefull to vinderstand the controversies betwixt souldier and souldier, and searched with great attentiuenesse into the revenues of the Provinces, to the end to supply, what was wanting; endevouring notwithstanding aboue all neither to buy, nor feede ought, that was not for vie. Wherefore when he had fathioned his fouldiers to his owne example, he passed over into Britaine, where hee corrected many thinges, and was the first, that drew a wall along by the space of eighty mile; wherewith hee divided the Romans from the barbarous people. Hetherto Spartian. I have recited the history at large, because I might represent the picture of an excellent Generall.

of Ælian.

4 Alexander the Macedons manner.] That this booke comprehendeth the Macedonian discipline of armes, I will show heereafter, as particulers offer them_ selves. In the meane time let this suffice for an argument, that Elian doub. tethnotto affirme it to Adrian , a Prince excellently learned in the Greeke language; and as by reason of his skill hee was able to discerne, so by his authoritie hee would have censured so grosse an escape, if it had been otherwise, then

Ælian reporteth.



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The Authors that have written Tacticks; of this booke, and of the profitt, of the Arte.

CHAP. I.

Homer the Poet seemeth to bee the first, (at least we reade of) that had the skill of imbattailing an army, and that admired men indued with that knowledge, as appeareth by Mness of whome he writeth.

His like no living wight was found, nor any age did yeild, To Marshall Troopes of borse, or bandes of soote in bloudie field.

Concerning homers discipline militarie, the workes of Stratocles, & of Frontine a man of Consular dignitie, in our time are to be read. Aneas persected the Theorie thereof at large publishing many volumes of warfare, which were abridged by & Cyneas the Theffalian. Likewise + Pyrrhus the Epirote wrote Tacticks, and his sonne's Alexander, and Clearchus, and Pausanias, and & Euangelus, & 7 Polibius the Megapolitan (a man of great learning, Scipioes companyon) & Eupolemus, and & Iphicrates; Posidonius also the Stoick lett forth the art of warre, & many other, some in Introductions, as Brion, some in large Tactick volumes. Al which, I have seene, and read, and yet thinke it not much to purpose to mention perticulerlie; being not ignorant, that it hath beene the manner of those writers for the most parte, to applie theire stile not to the ignorant, but to such as are alreadie acquainted with the matters they intreat of; as for the impediments, which presented themselues to mee, when first I gaue my minde to the studie of this art, as namely neither to happen vpon sufficient Instructours, nor yet to find light, or perspicuitie enough in the precepts delivered: I will endevour, as much as I can, to remoue out of other mens way. And as often as wordes shall faile to expresse my meaning. I will for plainenes sake, vie the direction of figures, and pourtraicts, adioyning thereby the view of the ev. as an aide, and affistance, to the understanding, & withall retaine the termes of auncient authours, to the end, that who soever shal follow this booke for an introduction, being therein exercised both to the same wordes, & also to the vsage of things expressed in them, may grow as it were acquainted, and imagine himselfe no straunger, when he cometh to read their workes. By which waies by me prescribed, I make no doubt, they will easely be understood. Now that this art of all other is of most vse, may appeare by Plato in his booke of lawes where he faith: That the Cretan Lawgiver so contrived his Laws, as if men were alway prapared to fight. For all cities have by nature unproclaimed warre one against another. Which being so: what discipline is more to bee esteemed, or more avaylable to mans life, then this of warre. Notes.

TI feemeth by this Chapter, that the Authors, that have of auncient time written Ta-Litiks, have beene many : and those not of such kinde of men , as have given themselves to study, and contemplation alone, but of such, as besides theire knowledge in good letters, have beene actors in warre themselves, & (which is more) principall actors, some of them Generalls, other the next degree to generalls. Howbest there is none heere mentioned by Ælian, whose workes are extant. Whereby may be esteemed the inestimable losse, these la-

ter ages have suffred in being deprived of such excellent monuments. I hope, I may so terme them without offence, though I have not seene them. For what but excellent, can proceed from men of such excellencie in theire profession: such as the most parte of those were. Tet, for some of them, I can say nothing, as finding litle remembrance of them in auncient writers. Of this kind are Eupolemus, Stratocles, Hermias, Clearchus, Paufanias: albeit such names may often bee founde: Therest are specially mentioned, and much

commended. Of whome I will fet downe, what I finde.

I Frontine a man of Consular dignity] I have before noted some what of Frontine. Wee have of his, as it is thought, other workes, besides his stratagemes: But this booke a vegeniss libra of Tacticks, whereof Elian speaketh, wee have not. I will onely adde the relation of 2 Vegetius towching Frontine, who writeth thus : Cato the elder, albeit hee had beene both invinceable in armes, and often Generall of great armies, beleeued yet hee should more profit his Countrey, if hee laid downe in writing the discipline of warre. For valiant actes are but of one mans age, but things written for the profite of the state endure for ever. Many other haue done the like, but especially Frontine: whose industry herein was greatly approved by the Émperour Traian.

b Polyb. lib.zo.

2 Anaas perfected the Theory.] Eneas is mentioned by Polybius in his to. book, where he discourseth of signes to be made by beacons of sire, in case an enemy approacheth to any parte of our Countrey. His bookes were intituled Commentaries of the office of a Generall as Polybius saith; & Elian heere calleth them books of the office of a Generall, the title being all one in effect. Of these bookes none have reached to our age, but one alone, which comprises precepts of defending a towne besieged, & some s.or 6 years agee came first to light, or privitie that worthy man Isaac Casaubon, the learned ornament of his Countrey, (and of England so long, as heelived there) being the setter forth. And it is adjoyned to his edition of Polybius. The bookes Tactick of Anaas were abridged (as Alian (aith) by.

3. Cyncas the Thesialian | Plutarchin the life of Pyrrhus telleth vs what Cy-Plotteth in neas was. There was, faith hee, in the Court of Pyrrhus a Theffalian, a man of great vnderstanding: & whoe having heard the orator Demosthenes, seemed alone of all, that then were esteemed eloquent, to renewe in the memory of the hearers an image & shadowe of the vehemencie & vigor of his vtterance. Pyrrhus held him in his Court, and made vse of him, in sending him in embassages to people and Cities. In which embassages hee confirmed the saieng of Euripides.

> What ever force can doe, with trenchant swoordes: The same, or more, is wrought by pleasing wordes.

Therefore was Pyrrhus wont to fay, that Cyneas had gayned more Cities with his eloquence, then himselfe with armes. By occasion whereof he did him great honor, & employed him in his principal affaires. Tully feaketh of his workes: your letters, (faith he to Papyrius Patus) haue made me a great Gene- a Coero, epit. rall: I was altogether ignorant of your fo great skill in military matters. I fee milder in the special state of t you have read the books of Pyrrhus & Cynæas, I therefore purpose to follow your counsel, this yet more, to haue some fewe shippes in a readinesse vpo the fea-couft. They fay, there is noe better armour against Parthian horsemen. But why fport wee? you knowe not, with what a Generall you haue to doe. I haue in this my governement fully in practife expressed Xenophons institution of Cyrus: which before I had worne a pieces with reading. Pyrrhus & Cynaus, hee namet b, as two principall Authors of warlick discipline: And where he addeth Xenophon, whoe, though he be not named by Elian amongest the Tactick writers, descrueth yet not 20 be pretermitted, having been both a great Comaunder, & besides writte largely of military matters, whose workes also are now extatzlet us see, what he saith of him in another place. Cyrus, faith he, is written by Xenophon, not according to the truthe of b Epitel, ad a place. an history, but for a patterne of just governement. Whose wondrous grauity is by that Philosopher matched with singuler Curtesie, which bookes our A. fricanus, (and that not without cause) was never wont to let goe out of his handes, And of Africanus he reporteth the like in his Tusculan quæstions.

4 Pyrrhus the Epriote Wrote Tacticks.] Pyrrhus the K. of Epirus was of aun. 10.2.146 cient time esteemed one of the be Teneralls, that ever was What a Anniballs indgement a Livy decad a was of him Liuy reporteth, & I tarch in the life of Pyrrhus. And Antigonus being de- epinin Pyrtho. maunded, whom hee thought the greatest generall, then living, aunswered Pyrrhus. And where other Kings imitated Alexander the great in purple apparaile in number of gardes about theire persons, in carieng the necke a litleawry, & inspeaking lowde, hee alone repræsented him in exploites of armes, & in deedes of prowes, faith Plutarch. f Plutarch faith likewise: Towching his skill in the arte pymbe. military howe to order a battaile, and howe to bring his men to fighte with most advantage, a man may draw proofe sufficient out of the books, he wrote; of which bookes Tully spake in the last paragraph.

And his sonne Alexander.] Pyrrhus had by his first wife Antigone a sonne called Ptolomey, by Lana (a, another called Alexander, & by Bircanna, the third named Helenus, & All which albeit by race & inclination of a ture they were Martial, g. Plotatch, in yet brought he them vp, & from theire birth framed & enured to armes. And the report is, when vpon a time one of them, yet a chylde, asked him to which of them he would leave his kingdome, to him, aunswered Pyrrhus, who shall haue the sharpest sworde: h Iustin also makes mention of these three sonnes. Ptolomey h Int lib 18, was laine a: Sparta, as Iustin would have it. Plutarch saith he was slaine in the way be- i Lib 15,007.D was laine a: Sparta, as Iustin would have it. Plutarch satth he was laine in the was let lib 35,00,00 was laine a: Sparta, as Iustin would have it. Plutarch satth satter see deader, in the Realme of E. Pluc in Pyritary twint Sparta & Argos. Alexander reigned after his fathers deceading in the Realme of E. Alexander Living Eliza and the was lain and the sattern than the sattern the sattern than the sattern than the sattern than the sattern that the sattern than the sattern the sattern than the s pirus. That hee wrote Tatticks, I have not read, but in Alian onely.

6 An I Evangelus] Plutarch discoursing of the studies of Philopamen hath this Dipnosphilb. 30 6 An Evangelus] Plutarch discoursing of the studies of Philopamen naturals of Philopamen in the tooke noe delight to heare alkinde of discourses, nor to reade al m Plutarch in ineffect. The tooke noe delight to heare alkinde of discourses for the devilion of the philopamen. books of Philosophy, but such onely, as might profit to the daylie encrease of vertue, And hee read not willingly other passages of Homer, then such, as hee thought had some efficacy to moue a mans hart to prowes. But amongest, and about al other readings, he specially affected the Tacticks of Eurngelus: & like wise the histories of the exploits of Alexader the great. This is al I find of the Ta-Hicks of Evangelus. I gessenotwithstanding, he was a choice author, because Philopamen had him in such esteeme; of who me the same " Plutarch writeth: That Greece " Toid, bore him singuler affection, as the last vertuous man, which shee brought

foorth in her ould age, after so many great, and renowmed Captaines of auncient time; and alwayes augmented his power, and authority, as his glory encreased. In which respect a Roman, praising him, called him the last Græcian; meaning that after him Greece bred noe great, nor any personage in

deed worthy of her. 7 And Polybius] It is the same Polybius, whose History, so much as is extant, that excellent learned man Isaac Casaubon ir anslated into Latin, and set foorth 1609. For his life and worth refort to the preface of the same Casaubon to Polybius his history. Hee had beene in Achaia, his owne countrey, Generall of the horse. Afterward being in displeasure with the Romans, hee lived long in pri-Son at Rome : and was for his worth finally released by intercession of the grearest men of Rome : and became companion to Scipio Africanus the younger; with whom also he was at the siege and destruction of Carthage. His Tacticks, whereof Alian (peaketh, are perished with other of his workes. Tet are there many passages dispersed heer, and there in his history, which argue his extraordinary skill in matters of warre. And it may feeme, that Elian hath taken much from him both for matter, and wordes.

8 Iphicrates] Whoe will reade of Iphicrates, let him goe to 2 Amilius Probus, but in vita iphin that writeth his life. His actes are also declared by Xenophon, and Diodorus Sicu-history epelbo. lus, and Polyan, and Iustin and divers others, as they were incident to their enerall 587 B.c. lus, and royan, and influenced one of the best Generalls of his time: and was called out A79.
Polyan lib & in by name by Darius King of Persiato bee generall of the Gracians, his mercenaries, in Inhurance to the warre, hee had against the Agyptians: His same and astimation was soe great with Alexander the great, that when his sonne (whose name was also Iphicrates) with other Gracians were taken prisoners by him, for that they came embassadours into Persia to Darius, he not onely spared him for the love of the City of Athens, and for the b Adrian lib 2 remembrance of his fathers glory (b the wordes of Arrian) but held him about him in

honour so long, as hee lived, and after his decease sent his reliques to Athens, there to

nowne, and of the sect, that were called Stoicks. Tully citeth him often in his workes.

be interred by his friendes, and kin (folk. 9 Posidonius the Stoick Posidonius in his time was a Philosopher of high re-

e Tuscul questir In the second booke of Tusculan quastions heerecounteth, that Pompey the great, on a time comminge to Rhodes, was desirous to heare him. But vnderstanding hee was extreamefick of the goute, hee forbore not notwithstanding to visit him being a most noble philosopher: whome after hee had seene, and saluted, and vsed with honorable wordes, and told him, hee was fory, hee could not heare him discourse, you may, if you please, quoth Posidonius: and I will not suffer paine to bee cause, that so great a man seeke mee in vaine. Then, as hee lay in his bed, began hee gravely, and copiously, to dispute, that nothing was good, but that, which was honest. And when firebrands, as it were, of torment towched him to the quick amiddest his disputation, he broke foorth often into these wordes: Sorow, all this is nothing: Though thou troubk me ned Plin meneral wer so much, I will not yet confesse, that thou art of thy self evill. So Tully d Pling like-hist by year 30 mile allest show Dominary of the physical and the self-should be proposed to the self-should wife telleth, that Pompey, after the warre of Mithridates, going into the howfe of Posidonius, a man famous in Philosophy, forbid his serieant to knock at the doore(as the manner was,) and the serieants bundles of roddes (saith he) were fubmitted to a doore by him, to whom East & West had submitted theselues. e Chero dena The same a Tully attributeth to this Passanius the invention of a Sphere, whose partura deri librar ticuler conversions did worke the same in same & manage and the same in same & manage & planets, that is wrought by the motion of heaven every day and night. The

The preparation of warlicke forces and division of them, and how they are armed.

CHAP. II.

will then beginne with fuch preparations as are absolutely necessary for Lervice in warre, the forces whereof are of two fortes, the one Land forces. the other ship forces. Land forces are such, as fight on land: Ship forces fuch, as are ordered for tight in shippes vppon Sea, or Rivers. But the order of Sea service I will reserve for another place, and intreat now of things pertayning to Land service. The levies then for land service are either of those, that fight, and mannage Armes, or else of those that fight not, bus remaine in the campe for necessary vses. They fight that stand ordered in battaile, and with armes [affaile or] repulse the enemy. Therest fight not, as Phisitians, merchants, servants, and other, which follow the campe to minister unto it. Such as fight, are either footemen, or Riders : footemen properly, that serue on foote. Of Riders, some vse Horses some Elephants. They, that vie Horses, are carye ither one Horse-back, or else in Chariotts. And these are the differences in generall. But in speciall the foote, and Horse receaue many other divisions; oncly the Elephants, and Chariotts, never varie. Footemen then are reparted into three kindes, one being Armed, another Targettiers, the third light, or naked. 2 The Armed beare the heaviest furniture of all footemen? vfing according to the Macedonian manner large, round, Targetts, and Ionge Pikes: 5 The Light contrarywise beare the lightest, having neither Curace, nor Greue, nor longe, or round Targets of any weight, but 'flieng weapons onelie as 7 Arrowes, B Dartes, Stones either for hand, or sling. To this kind is referred the so armour of the Argilos , who hath his furniture like to the Macedonian , but something lighter. For hee carieth " a little flight Torgett, 12 and his Pike is much shorter, then the Macedonian Pike : which manner of arming seemeth a meane betwixt the light, or naked, and that which is properlie called heavie: as being lighter, then the heavie, and heavier, then the light: and that is the cause, that many place it amongst the

The forces of Horse (which wee distinguished before from Chariotts) as being ordered in Troopes, are either ' Cataphracts, or not Cataphracts. They are Cataphracts, that cover theire owne, and theire horses bodies all over with armour. Of not Cataphracts, some are Launciers, some Acrobolists. Launciers are such as joyne with the enemy, and fight hand to hand with the Launce on horseback. Ofthese, some beare longe Targets, and are therevppon called Targetiers: Other some Launces alone without Targets, who are properlie called 'S Launciers, and of some Xestophori. 's Acrobolists on horseback are such as fight a far of with flieng weapons. Of these, some vse darts, some bowes. They vse darts, whome wee call '7 Tarentines. Of Tarentines, there are two fortes; for some throw little 18 darts a farre of, and are termed Darters on horseback, but properlie Tarentines: others vse light darts, & 19 after they hauespent one, or two, close presently with the enemy like the Lanciers, which

The Tatticks

wee spake of, and fight hand to hand. These in common speech are named light horsemen. So that of Tarentines some are properly called Tarentines, whose manner is to darte a far of. Some light horsemen, who joyne, and fight hand to hand. 20 The horsemen that vie bowes are termed Archers on Horseback, and of some Scythians.

These then are the differences of such as are in the Campe, the kinds of Souldiers being in nomber nyme: Of footmen, armed, Targetiers, Light armed, ornaked: Ofhorsemen Lanciers, Darters, Archers, Cataphracts: And lastlie

Chariots, and Elephants.

Notes.

N this Chapter the kindes of Souldiers are distinguished according to theire seueral Larmes borne in fight. And therefore of foote fome are called armed, because they beare heavy armes; other light-armed or naked, because they we are no defensive armes, other some Targetiers, because theire chief defence rested in a slight target, wherewith they covered theire bodies. The horse also have theire appellation, as their earmes are. And some are Cataphracts, because themselucs & horses were armed compleatly, other Launciers , for that they vied a launce : other some Acrobolists , by reason they fought with flieng weapons a farre of . The first thoughts of a Prince, or State, that is resolved to put an army into the field, ought to be to provide armes. Armes are the fecurity of theire own souldiers, the terror of the ennemy, the assured ordinary meanes of victory. The antiquity of armes is all one with the beginning of warre. For when of auncient time mighty men puffed up with pride, and led by ambition, sought by violence to enlarge their empire, and to bring under subicction their bordering neighboures, they were enforced to flye to the invention of armes, without which noe victory could bee obteyned. Since, armes have been taken up for defence also, necessity, the mother of artes, inventing ameanes to withstand ambition. As Antalcidas well obiected to Agesilaus being wounded by the Thebans; you are well rewarded for your labour, quoth hee, since you would needes teache the Thebans to fight, that had neither will, nor skill so to doe. For the Thebans being put to necessity of defence grewe warlick through many invasions of the Lacedemonians, faith 2 Pintarch, in A-2 Plutarch. Whoe were the inventers of the seueral pieces of armour, and of the diners petition.

Belia natural kindes of weapons weed in old tyme, may appeare by the relation of b Pliny in his natural history. This is cerseyne, that the most warlick nations, and most victorious have alwayes fought to have advantage of theire enemies by advantage of armes. The end of armes is either to defend, or affault. Hence are armes divided into two kindes : Defensine, and Offensine. Defensine are those, which are worne to resist the force, and charge of the enemy. Of this fort are the head piece, gorget, curace, vambrace, gantlets, tases, greves, and target. For whereas there are eleven partes in man, the woundes E Paric Paral of any of which bring with the undoubted death (as some authors write) the braines, the two temples, the throate, the breast, the belly, the two muscles about the two elbowes, the other two about the knees, of the privy members pierced with a thrust: the headpiece (crueth for the defence of the braine, and temples, the gorget for the throate, the curace for the breast, the vambrace for the muscles of the armes. the tales for the privities & belly, the greves for the muscles about the knees, and the target for further affurance of the whole body, being moveable against all strokes. and profers of the affailants. Offensiue armes are such, as men endevour to wound, or kill withall: as flieng weapons of all kindes, arrowes, stones out of slings, or the hand, Swordes.

fwordes, pikes, partizans, javelines, and the like. But as defence, and security of a mans felf is more agreable to nature, then to hurt an enemy, so are the defensive armes 2 Plut in Pela preferred before the offensue, in that they bring safety to him , that beareth them, where as the other are imployed in annoing the enemy onely. The Poets fett foorth their bravest and valiantest men alwayes best armed for defence. So Achilles in Homer, and Aneas in Virgil, are armed to point with armes wrought by Vulcan, to the end toremaine unrowched amiddest the stormes of theire enemies weapons. The Gracian Lawgivers punished that souldier, that in fight cast away his target : not him, that lost his Sword or pike. Plutarch writeth, that at such time as Epaminondas asfaulted Spar - Agesiao. ta (the most warlicke City of Greece) there was in the City a Spartan named I (adas, who was the fonne of Phabidas, hee that surprised the Castle of Thebes called Cadmaa. and thereby stirred up the warre betwixt the Thebans, and Lacedamonians, & ruinated the principality of the Lacedamonians in Greece. This man being in the flower of his age, and personable, and large of lymmes, ranne foorth of his howse all naked, his body annointed with oyle, without apparaile or armes, except a sword in one hand, & a lavelin in the other; and breaking through the throng of those, that fought on his side, came to handes with the enemy, and overthrowing some, and killing other some, continued the fight, till the enemy was repulsed, and at last returned into the City without wounde. The chief magistrate understanding hereof rewarded him with a Crowne for his valor. but net fined him at a hundred drachmes, for that he durst veter to fight without armes . Drachma bath defensive; judging it a mat almost impossible, that a naked man should escape with life that is about to Eghting against the armea andes of fo many valiant enemies, as the Thebans were. In Poll xlib. s.

In armes was required, that they (hould bee strong, that they (hould bee fitte, that cap. 4 42. they should bee comely; strong to protect, or annoy, fitt to sette close to the body and bee manageable, comely to grace him, that beareth them. That defensive armes ought to be strong, may bee shewed by the end of armes; which is to saue harmlesse against arrowes, daries, and other offensive armes of the enemy. If they faile of this end, they are of noe vie; it being better to be unarmed, then cary armes, that will not defend. Without armes you have the body free, and at liberty: carrieng armes, though never so light, they must bee a cumber to you, and some what hinder the motion of your body. Armes therefore ought to bee sufficient to resist the weapons of the enemy. The inconvenience of defective and weake armes is well noted by Vegetius. From the building of the C1- e vegetins lib. ty of Rome, faith hee, till the time of the Emperour Gratian, the foote armed, a custome in theire bodies with Cataphractes, and head-pieces. But when field exercife the unit amount of the through negligence, and flouth was given over, armour began to growe heater twee failules. vv. because it was steldome put on. They made suite therefore to the Empe-what that are rour first that they might leave of their Cataphractes, then, their headpieces. So our fouldiers encountring with the Gothes, were oftentimes wholy defeated and slaine by the multitude of theire arrowes. And a litle after : so cometh it to passe, sith he, that they, whoe without armes, are exposed in the battaile to woundes, thinke not so much of fight, as of running away. Yet must wee not imagine, that those souldiers sought in theire ordinary apparaile onely: I encline rather to the opinion of & Stewechius, whoe holdeth, that they tooke themselves to a sewechian in their military coates, called in Notitia vtraque, Thoracomachi: and to their e Notitia vtraque, Targets: This Thoracomachus was a garment invented long before Gratians time, and Occident in fine. worne under the armours of the fouldiers, and was a kind of felt, but being noe profe against arrowes, and theire targets not sufficient to cover theire heads, and whole todies from arrowes, They were obnoxius to the shotte of the Gothes, and received those overthrowes Vegetius feaketh of.

The matter whereof strong armes were made, I find to bee divers. Some were forged of e samuel capier Steele: as the armour of Goliath, and the head-piece of K. Saul. For it is not there fette downe, what his curace was of, Notwithstanding it is likely, it was of the same matter, of sobich his headpiece was made. Whe I fay these armours were of Steele, I follow therin the indgement of Tremelius and lunius, whoe so translate it; & with them also agreeth Va tablus. For the old traflation hath, that they were of braffe: I have not elsewhere read of steele armour. And it may bee, that the old translation had an eye upon the vsage of auncient time, wherin the matter of armes was principally of Bratic. Homer reporteth, that Homer Iliad. the armour of Diomedes was of braffe: & Paulanias, that all the Heroes (that is the 6 Paulan. in la- Aunciet worthies about the time of the siege of Troy) had their armour of Brasse. Alcaus concess 161 e Athen apno. the Poet in describing his armory saith, the rest of his armes were of brase, as his head-Gen libra 617 A pieces, his greves, his Targets, only his Curaces were of linen. A Paulania reporteth al fo that the sword of Memnon was of brase, & the head of the speare of Achilles, & Pisane Livy lib 1, 27 ders axe, & the head of Meriones his shafte. Servius Tullius in sessing the City of Rome, appointed the chiefest & richest Citizens to arme themselves with headpieces, greves, Cuf Nero in Res. race, & buckler alofbraffe. The targets of the Lacedemonians Were of braffe a foby the inaccourson 625 flitation of Lycurques. So that brafe was much wfed in armes in the oldest times. And where Alcaus Speaketh of his linen Curace, I find that Curaces of linen were inrequest also eve Homer 2 Iliad in those times. Homer affirmeth that 8 Aiax Oileus had a linen Curace. But afterward le Atentica Prob. in Iphicrates the Athenian held them so good that he gaue them to his souldiers to weare, in i Xenorh Cyro Rede of their v fuall armes made of iron, & braffe And Xenophon armeth : Abradates the K. of Sule with a linen armour, adding that it was the manner of that Countrey. And Pluk Pletarch, io tarch sith, that k Alex, the great, after he had gotten the victory against Darius in Cilicia, Alexandro. found emogest the spoile a line armour, which be afterward vsed in the battailes, he fought. 1 Patric Paral. 1 Patricius is so confident in the strength of a linen armour of his o wine device, that he doubteth not to preferre it before well tempered iron. What his invention is, he keepeth to himfelf for feare the Turk should have intelligence of it & so Christianity bee driven to an exigent. Almen knowe, that the temper of an iron armour may be such, as wil resist the violence of a mulket shorte, and that at a neere distance. Neither is this temper the invention of our dayes. The like hath been of auncient time, " Plutarch Writeth, that Demetrius be fieging Rhodes, was presented with two iro armours brought out of Cyprus, either of the weight of 40 pownds . The maker of them, whose name was Zoilus, destrous to shewe their strength, & firmeneffe caused one to be set up at the distaunce of 26. paces, and bee shorte at with an arrowe discharged out of a Catapult. The armour hitte remayned unpierced, nothing appearing vpo it, but the rasing, as it were, of a peknife. And that a Catapult is of more violece, the amufet the effects thereof declared in history make plaine Whether a linen coste be of that resistance, or not , hath not been yet tried. Nay the contrary hath been tried. For Alexander at a siege of a City of the Mallians (as I take it) was fore wounded with an Indian arrowe through an armour of linen. Whose armour I would judge to have beene not of the stenderest, and weakest, but of the surest kinde. Yet is it not to bee passed over that lusus Libsius alleageth out of Nicetas Choniates concerning alinen armour of Conradus of Mon-I lot loft in the ferrate : " Conradus, faith bee, fought then with out a target, and in steede atal 6 al Pois of a Curace hee had on a woven weed made of flaxe, foked in fowre wine, well falted, and often-folded. It was fo fure against outward force of strokes, being fulled with wine, and salte, that it could not bee pierced with iron or steele. This invention our age hath not beene acquainted with; Whether it hee the same, that Patricius aimethat , let experience judge. That antiquity practifed it in wooll, Pliny Witnesseth, who writing of wooll and woollen garments faith : Of wooll wrought and pressed together by it selfe

alone (I think as our hatters worke felt) a garment is made; & if you worke it with vineger, it cannot beeftrooke through with a fword. This wooll fo wrought, he calleth coactam: whichin Cafar, as I take it, is called Subcoactum. Cafars wordes found thus : " Pompey , although hee had noe purpose to hinder a Cofir de bell, Cæfars workes with his whole army; nor yet to hazard battaile, sent not withstanding archers and slingers, of whome hee had great store, to convenient places; and by them many of our fouldiers were wounded; & a generall feare of arrowes fell vpon them; and well nigh our whole campe made themselues coates and cases of either selts (subcoactis) or quilts, or leather, thereby to avoide the daunger of flieng weapons. But wee will leaue Patricius to his fance. and adde an example out of Xenophon of armes vsed by the Chalybes, a nation inhabiting the Chaldean Mounteines. b The Chalybes, faith hee, were the most vali- b Xenoph.de ca ant nation, that the Græcians passed through, & such as durst come to handes between the winds with them. They ysed linen Curaces reaching downe to their bellies, and. came downs to the bellies, and the winds when the bellies and the bellies are the bell in steede of winges, they had roapes thick woond, and fastened together. the thousand their de The strength of roupes thick wound together must, not question; bee great. Casar confirmeth it. Emongest other defences, which his souldiers deuised for assurance of a Turret against the Engins of the Marsilians, hee Saith: They made foure sto-civil, ib. ries of Cables fitting the length of the walles of the Turret, and foure foote broade, and fastened them hanging downeward to the beames sticking out of the Turret on those t'ee parts, which lay toward the enemy; which kinde of covering alone, they ad in other places made triall, could bee forced or Prooken through by noe missiue weapon, or Engine whatsoever. This, I have beard, was the device of the Spaniards in 88. to defend their ships against the fury of our artillery. Whereof I may inferre, that if Cables combined together bee of such assurance against Engines, roapes thick layde and fastened together must bee a strong defence a. gainst a sword. To end with the matter, whereof armes were made , I finde likewise, that the Macrones veed, in steede of Curaces, coates made of haire. And thus much & Xenop de extention of the matter of Armes.

Besides, armes should be sitt for the body, and for the strength of him, that beares them. When David was to fight against Goliath, K. Saul, seeing him without armour, caused en same 17.4. his owne head piece & curace to be put upon him. David assayed to marche, but finding these armes to heavy was faine to leave them, and to goe against Goliath unarmed. Saul was the tallest man of his nation, David but meane of stature, & to put armour propor-teaps.vis tioned to a large body upon him, that is a great way leffe of members is as much, as to deliver him bound to his enemy. Xenophon emongest other causes, why the Lacedamonian borse were beaten by the Thebans at the Leuctrian battaile, alleageth this for a maine cause. That the richest men kept & furnished out horses, & as often as musters & xenoph his. were take, the man, that was to ferue, shewed himself, & answered to his name, -& receiving horse & armes, such, as were given him, was so led against the enemy. They were beaten, saith Xenopho, receiving horse & armes at al adventure, not knowing, whether they were fitt for service, or not. Whether armes be to bigge or to litte, they burt a like. To litle, they pinche the bearer, & make him not able to endure labour : becaufeheisin paine: To great, by theire flap and loofehanging about the body, they hinder the motion of those partes, that are to be imployed in fight. Being fittethey differ litle from ordimary apparaile, except it be in weight: which inconvenience is ea fily remedied by v le, and practife. h Tully Writeth of the Roman Souldier , that his continually se of armes was such, h Cicero Tulest that hee noe more reconed his target, fword, head-piece, & other armes to bee burdenous vnto him, the his shoulders, armes, & hads; & said that armes were part

part of a fouldiers body, being fo fitly made & borne, that need requiring, the could throw down their burdens, & vse their ready armes in fight, as the members of their bodies. Tet must care be had, that theire weight exceed not the strength of him, that beareth them. For whoe wil be able to continew long in fight, that beside the labour offight, is charged with a burden more, then he can well be wil The proofe is plain in a delian up. 12 beafts, which howstrong foever they be, faint & tire under to much weight. a Alian ofter, speaking of the length of pikes, giveth this rule, that they bee noe longer thema man may well vie, & wield in handling. To much length maketh them to heavy, & wnfirte to be manazed wherby they reft unprofitable to offend the enemy. In this property of fitnesse those armes er weapons are compreheded, which are of most viein the field. For as in all other artes thinges of greatest effect are alwayes praferred, so is it in warr. There is great advantage in armes, which is the cause that one kinde hath been preferred before an other. Amilius Probus giveth anotable testimony of skill in matters of warre to Iphib Aemil probin crates, of whom he writeth thus: b Iphicrates the Athenian invented many things Iphica & Doil. Inca & Dot in warr. Hee chaunged the armes of the foote: For whereas before they yied great targets, short pikes, & litle swordes, he gaue them litle round targets, called Pelra, that they might be fitter for motions, & encounters, and doubled the fise of their pikes, & made their swordes longer. Hee likewise chaunged theire Curaces, & in stede of iron, & brasse, brought in other wrought of linen, wher by he made them nimbler at all assayes. For lessening the weight, hee brought to passe, that they as much covered the body, and yet were very light, and fitte for vse. Of these rargets, which Iphicrates invented, the names of Peltati (Targetiers) sprong : of whom wee shall heare more in this chapter. And yet wee must not heereof coclude that Iphicrates chaunged all the armed foote into Targetiers for the c Renoph hat. Athenians had still their armed, notwith stading this invention of Targetiers, as 'Xeno-Grand D phon testifisth) but where as the Athenians before had noe targetiers of theire owne people, (as I coniecture) Iphicrates brought in this kind of armour: and fo of the armed, hee made some targetiers, be left the rest to the armes, they bore before indging it more prosimade some targetters, & less the rest to the armes, they bore before studying it more profi-Polys is in Phile table to have both Targetiers, & Armed of their owne people, then armed alone. A Philo-loom 5: Pau-tangatestable 2 armen also the brane Achean Generall tanght his Country-men in stede of longe targets tangatestable 2. & lavelines to take around target (called Aspis) & a pike after the Macedonian maner, and to arme them selves with head-pieces, Curates, & greves, and to settle themselves to a staid, and firme kind of fight, in lieu of concursory, and peltasticall encounters, and by this meanes brought the to be valiant, & brave fouldiers, & victorious in their fights against Powell and their enemies. Polyh. discoursing of the Gaulois & Spanish swords of aureiet time, saith, 2. 16.4 Ex this that the Gaules fword was fo fashioned, that it served onely to strike with, and but for one stroke: after which it so bowed both in length & breadth, that vnleffe the point were rested vpon the grownd, & the blade rightened, you could not strike with it the second time. But the spanish sword was both for thrust & stroke, having a strong point, & a stiffe & sure edge to strike with al on either side by reason of the simmesse of the blade. This difference the Romas espied, and being excellent imitators of all thinges, which were best for vse (though they were enemies from whom they tooke them,) made choice of the ipanish Esuidas in mac. Sworde, & after Annibals time caused their foote to vie noe other ! Suidas witnesset bit: The Spaniards, faith he, in forme of swordes farre excell all other nations. For their swords both haue a strong point, and an edge on either side, that entreth deep in striking. Which caused the Romans, to lay down their owne countrey fwordes, and take the spanish forme from them, that followed Anniball. The formethey took, but the goodnesse of the mertall, & exactnesse of the temper

they could never atteine vnto. The Romans then relected the french swordes, as of Imali vee, & imitated the spanish, because they were fitt for service Xenophon describing the nations, which followed Crasus against Cyrus, theire manner of arming, and order in battaile, tell th of the Egyptians, that they were armed with targets reaching downe to a Xenoph, Cyr. theire foote, with long pikes, or with swordes, which they call Copides, of for order, flood to Copides were a handred in depth, To bringeth in Cyrus deriding this manner of arming, and order, to fiveder a line his Souldiers, sayeng they were a like armed, a like embattailed. For their: targets, said he, pounting at the are greater then is fitte for action, & for fight, & being raunged a hundred deep, it is manifest, they will hinder one another in fight, except a fewe. b Annibal, after his first victory b Ford 115 17 against the Romas, armed his Africans (his best & most trusty (culdiers) with the armour Fas 763 C of the flaine Romans; because he found it better, then his owne: & Pyri hus veed not onely the armour, but the Italian fouldiers alford raunged them a cohort of a Merarcha elter natively one by another. And Mithridates after his experience in his first warrs with the e-parachin La Romans, that aswell in arming, as in manner of fight, they excelled all other nations, less culto the arming of his owne Countrey, & brought in the Roman foor d, & target, & reduced all as neere, as hee could unto their discipline. So then strength & fitnesse are required in armes. To them is comeline see adjoyned. The shield of Achilles how was it bewrifted with pictures & Stories by Vulcant and that of Ansas, comming out of the same forge, how glorious was it? To fay nothing of the brane armes of Hector, Agamemnon, Diomedes, Glancus, Turnus, Mezentius, & other. Alexanders armes were very rich. He had a a Plus in Alex. Sicilian Caffock gyrded vpon a double linen Curace the spoile of Isfos; his headpiece was of iron lining like pure filver, the work of Theophilus: about his necke was an iron gorget befette with precious frones. A fword liee had of wonderful temper & lightnesse, the gift of the Citiean King, Hee wore a baudricke of prowder worke, then the rest of his armour, the work of the elder E. licon, & the honour of the Rhodian City. And Cyrus the elder, that lived before exemph Cyrop Alex. time, had armes provided by his Grandfather Astyages both very faire, & fitte for 1.61, 200 his body. Abradates the Sustan king had his headpiece of gold, & vambraces, and Exercise Business had be stone to bracelets about his wrests, & a purple Coate, and a plume of hyacinthine feathers. Neither did this bravery rest emongest the Princes alone. The Souldiers of Cyrus swere furnished with the same armes, that Cyrus himselfe bore, with scarlet g xenop.cyrop coates, Curaces of brasse, brasse helmets, white plumes, swordes, & euery one a https://doi.org/10.1007/10.1 darte. They differed onely in this that their armes were guilded, Cyrus his armes shined, & had a reflexion, as it were, a looking glasse. And h Alexan, hea- h Corner libe ring of the riche armour, the Indians bore, to make his owne fouldiers equall silver-targetters. with the in bravery, whom they exceeded in valor, caused theire targets to be plated over with filver (whereof they were after called Argraspides) & their horse-bittes to be made of gold, & adorned theire Curaces, some with filver, other with gold. This might freme pompe & superfluity in a yong King, were it not that the like was done by other the greatest Generals of auncient times. Cefar may serue for an i Plurarchia example for al whose souldiers how gallant and braue they were, Plut testifieth in his life. The Romans otherwise much addicted to frugality, allowed yet liberally ornaments to the bonouring of worther fouldiers, rewarding them for their fervice, with rich trappings for & Plinius history horses, chaines of gold, bracelets, crownes of gold & other honors: which they wore not on which they were not on which they were not on which the the late ly in the field, but at all other solemnities & meetings in the City. And for every common because fouldier they provided plumes of purple, or blacke fethers, every one of a cubit long. Of which plumes Polyb. giveth this judgement . Pluimes, faith hee, being added to the rest of the armour maketh a souldier seeme twice as great, as hee is; and beside the faire shewe, they make, they are terrible to the enemy in fight. A man may seeme as light, as a fether, that discourseth of plumes, & fetcheth ornament from fethers.

Termay I truely affirme, that the vice of plumes is very auncient, & that the Romans bo. a Hard U.s. 34 rowed it from the Gracians, and the Gracians from the Carians, whoe were the first inb Poyen in wenters of them. As much is tellified by Polyenus: He faith that Tementhes K of Egypt going to the oracle of Ammon about the state of his kingdome, had aunswer to beware & take heed of Cockes. P sammetichus, that sought the kingdom, had Pigretes a Carian to one of his familier friends: & learning of him, that the Cartans were the first that inve-

ted Plumes to their helmets, & eve then continued the vfe of them, & consecturing that the meaning of the Oracle was not of Cockes, but of men, that, wearing some ornament on their heads, had a resemblance of Cockes, waged a multitude of Carians against Temen. thes, by whose help he overthrew Tementhes in battaile, & possessed himself of the crown of Egypt. Now for the true end of fouldiers ornaments I wil onely adde one example. Philopamen the Achaan in reforming the abuses crept into the Achaan State with great Phin Philos iudgement (I will wethe wordes of Plutarch,) reduced to order theire delica-phylos cies & superfluities. It was not possible quite to take away the sicknesse of vain & idle desires, wherewith they had of long time been possessed, delighting in excesse of apparaile, in riche dyes of coverlets, & carpets, striving one with another, whoe should be most sumptuous in bankets & feastings. But by litle & litle beginning to turne theire thoughts from vnnecessary expences to a loue of comeline sie in thinges, that were profitable & honest, he brought them at last to leave the expences of the body, & to shew themselves gallant, & brave, in foldierly, & warlick furniture. A ma might therfore have seene the shoppes full of filver and golden cuppes cutte a pieces, of curaces guilded with gold, of filvered targets, and bittes; the places of exercise fraught with colts then first backed for fervice, & with yong gallats managing their armes; & in the handes of women head-pieces adorned with divers-coloured trymmings, horlemens coates, and fouldiers cloakes curiously embellished with flowers. For the very fight of these things both encreaseth Spirit, & stirreth vp desire, & engendreth an vndaunted boldnesse, and alacrity to daungers. In other shewes to much lavashing bringeth in effeminatenesse, & worketh a remissenesse of minde, the fence with vaine pleasings and ticklings subverting, as it were, the vigor and force of the vnderstanding. But in these the Spirits are much heightened, and exalted. As Homer bringeth in Achilles at the very fight of his newe armour ravished and inflamed with a defire to bee doing with it. Thus garnishing the youth hee exercised & hardened them to laboure and warlicke motions, making them thereby to undergoe with defire whatfoever they were commaun. ded. So farre Plutarch. Out of whose opinion it followeth, that Bravery of armes rais feth the spirits, stirreth up desire to fight, maketh the souldier bold, and cherefull to perills, and as Polybius holdeth pleaseth the sight, encreaseth stature in shewe, and is a terror to the enemy. Tet ought there therein a meane to be fought, & rather an assuraunce followed, then vaine gazing and oftentation. Antiochus being to fight with the Romans ga. thered a mighty army together. And seing them glitter with gold and silver, and with all excesse of bravery, as the manner of the Assaticall people was, tooke so great delight therein himself, that calling Anniball unto him, hee shewed his troopes, and demaunded, if hee thought not that Army Sufficient for the Romans: yes quoth Anniball, though they were the most coverous people in the world. Anniball with good reason derided the vaine howe fitter for a malk, then a field which hee assured himselfe would fall into the Romans handes to bee spoiled. Mithridates committed the like errour in his first warre against the Romans. For as Sophisters are wont for the most parte, saith & Plutarch, hee was in the beginning vaine glorious, and conceited by prowde warring against the Romans with weake forces, but yet sette out with pompe, and bravery

bravery to the outward view: But being foiled to his shame, and weighing in his minde he must take vp second armes against them, he sought to reduce his forces to a true kinde of arming. & fitte for the service, he intended. Rejecting therefore multitudes, and confused threatnings of barbarians, and furnitures of armes guilded, and fette with precious stones, as being a pray for the conqueror, and noe assurance for him, that we ares them, hee brought in the Roman lw ards, and caused long heavy targets to bee framed, and chose horses, rither that were already managed, and made fitte for fervice, then those, that w ne richly trapped and garnished. So farre Piutarch. The souldiers care there. fore ought to bee first for surenesse, then for situesse, lastly for comelinesse and ornament in armes. If the two first fails, the last availeth litle, and will proverather a burden, then a defence. And thus much of armes in generall: Nowe followe the particulers of armes, as

of Elian.

Preparacions absolutely necessary for warre] The preparacions, whereof Ælian Beaketh, are fo necessary, that without them noe warre can be made or continewed. For purpoling to fight by spater you must have hippes, by land, you must have foote, and borfe. For which if you prouide noe armes, you put them into the field not to fight, but to bee flauphiered. The manner of fight in the field is not of one fort. Some time celerity is needfull, to attempt or prevent the enemy: sometime a slowe and sure proceeding, lest, with to much halt wee be overtaken our selves Therefore the divers arming of souldiers ought to be such, that they may serve for all occasions, and ves, and that wee may employ alwayes to service such, as by rease of theire armour, shall most fitte our purpose. Wherefore Iphicrates fittly resemble a an army to a man's body calling the heavy-armed the aphotoch in Pebody, the light-armed the hands, the horse the feete, and the Generall the in the feet hand: and as, if any of the rest were wanting, the army should bee lame, and halted, so Lee case 5, 12 if there want a Generall, it is unprofitable, and of noe ve. The heavy armed are the body. Wohich give life and foode, as it were, to the rest: and to which the rest being distressed, retire. The light armed are the handes, which uppon every occasion being put out to grype and take hold upon the enemy, are drawen in againe, when it is expedient. The horse a feet move with celerity; the Generall is the head hat ruleth, that watcheth, that careth forthe reft, directing the times of theire motion, and of their reft. So then the whole force of the field confifteth of horse, and foote. And the foote are reparted into three kindes.

Armed, Targetiers and light-armed | Thefe feuerall kindes of fouldiers were wf dby all the Grazians, of pecially by the Mihenians, Lacedamonians, and Thebans, whoe b Thucyd. lib. 4. Were the mightiest and the most warlick people of Greece. Alexander had them in his army against Darius. When Alexander, saith Arrian, came to the place, where a Arrian line see Cyrus (with whom Xenophon was) encamped, and fawe the streights of Cilicia poff, ff.d with a strong gard, hee left Parmenio with the heavy-armed, to stay behind, himselfe about the first watch taking with him the Hypaspistes, archiers and Agrians, marched on toward the streights in the night. The armed were left with Parmenion, himselfe tooke with him the Hypaspists (targetiers) archers, and Agrians : d Thefe Agrians were darters on foote. The like is to be found a Arrian II. 1.14 in divers other places of Arrian. Pyrrhus allfo, that followed the Micedonian man- & Plerarch. in ner in arming his fouldiers, had the same division of armes. I And Philip King of Printe Macedony some of Demetrius. 8 And Antiochus, that Warred against the Ro-B Appin in Syr

2 The armed beare the heaviest furniture] This heavy furniture appeareth not by description of the armes, which Alian giveth them: which are a Macedonian * Acrailin Pro- target, and a pike onely. Iphicrates, besides the target (lesse, then the Macedonian a nomine Pro-bus in vita Ithe target) which he armed his Targetier withall, gave him both a pike of a linea curace : So that if the Macedonian armed bore not more then a Target and a pike, his armes should be lighter, then Iphicrases his Targetier, who had a target, a pike, & alinen Curace. It hath been the manner of some Nations to beare targets alone without Curaces. So d. d the a Xenoch Cyr. Egyptians in a Xenophon: So the Gaules in b Pausanias. There are againe, that have born b vaniania pho Curaces without Targets: as Phoreys the Phrygian in Homer: of which kinde of Curace, because it some what resembleth the Curaces of our time , I will reherse the descriptio out e Paufan in Pho ofe Paufanias. There lay vpon the aulter, faith bee, a brasen Curace, the forme whereof agreeth not with the vse of our times, but of old it was common. It had two plates of braffe, one fitte for the brest and the belly, the other to cover the backe. That before, was called gralon (the hollow part) that behynd Profegon (because it was added to the other.) They were fastened together with buttons behinde. It leemeth to bee a sufficient defence for a mans body without a Target, Therefore Homer maketh Phorcys the Phrygian to fight without a target, because he wore such a Curace. But yet, that it was not the manner of the Macedonian armed to be are pike of target alone, may be plaine many wayes. First & Polyen gineth them headpieces, or greues, and targets, and pikes. Then doubt I not but they were as well armed as the rest of the Gracians, within whose Panoplia Curaces were e Ad Ephel cap comprehended as S. Paule testifieth rekoning as parcels of the Panoplia, a Curace, a target, or a headpiece. Now that the Macedonians had also their Panoplia full or compleate arming) is to be found in Diod. Siculus Where also Choragus the Macedonian (whom 2 Cirtius calleth Horatas) is said in the fight betwixt him & Dioxippus to be fully arg Leo cap 6 5 med. S Leo describeth the Panoplia of the Macedonians after this manner. Alexander, (a th hee, armed his Macedonians with a large target, a fword, a head piece, greues, vambraces, and a long pike. Philopemen (as is before reherfed) reducing his Mchaans to the Macedonian arming, bringeth them to Curaces, head rieces & greues. The h Plus in Timol. names also, that are attributed to the Armed, shew, they were otherwise armed. Plutarch calleth them Pephragmenos, & Cataphractos as having theire bodies all armed & opposit i Vegent 1 cano them to Euzoni light or naked. And by Vegetius, the armour it felf is named Cataphracea, k Xenoph Cyr. because the Schole had a consend the schole had a consend the schole had be consend the schole had be consended to the schole had because the whole body is covered there with & Xenophon termeth them Thor .cophoros b.a. I Viget. It i cap ring Curaces. These are the strength of the battaile, and a strong Wall or rather a fortresse m Died Siculillo of the field to whom the light-armed and " the horfe also retire in time of need. As long as they stand the field is not lost; being defeated the rest can make noe resistance. Being armed With a single target without other armes, they incur the same daunger, that the Romans in Gratians time did, whoe for want of Curaces were entierly destroyed with the arrowes of the Cothes. Wherefore, it seemeth, A lian heer pointeth at the principall armes onely of the armed Macedonian. For after rard discoursing of the light-armed, he faith they neither had Curace, nor greue, nor long or round target: implieng thereby, that the armed had them all. n Livy lib 9.243 So " Livy, comparing the armes of the Romans and Macedonians together, faith noe more. then that the Macedonians were armed with a round target and a pike, the Romans with o Livy lib 1.27 along target, and a darte, called Pilum; when himself had before declared, they had headpieces, Curaces, and greues. ? Vfing targets after the Macedonian manner] Targets were of two fortes. round targets, and long targets. Long targets were called Thureo, and were in forme like a dwore from whence they had theire name. For Thura signifieth a doore. These the Romans , and Gaules wied , abeit [me What different in forme. The P round p cap. 22 had eight full handfulls in diameter, as A lian (atth , and were termed Afrides Long targets were much distiked by the Gracians. Cyris in Xenophon derideth them .

as both hindering the fight, & being unwieldy: and Philopamen chaunged them into a Polyenti. sin round targets following the Macedonian manner. The targets of Philopame b Pausanias Philopa, 1, 22 termeth Argelican targets; It may be because they were first wied by the Argiues in the b trade, in Ar. battaile between the Argiues of Danaes father, and Prains, who contended about the king. c Pausania Continues in the hings of Argos.

Of what matter these targets were, is a quastion. Some take them to have been made of caps other matter, & covered over with brase: & that otherwise the souldier should not have been able to have born them for the weight. I deny not, that in auncient time some targets were placed with braffe: the rather, because I find, that Alexander to match the Indian pompe covered the targets of his fouldiers with plates of filver. But, that the ordinary Macedonian turget was so covered, I deny. Llian after calleth them chalce (brasen) a cap. 12 not epichalce (covered with braffe.) Polyb faith, that the Macedonians in the time of & Balibania K. Philip the some of Demetrius were called Chalcaspides (Brasen targetiers) not epi- & 132C chalkitai by which name, as Helychius hath, they were called, that had their targets covered with bralle. So like wife in the time of Perfeus. And the Megapolitans, whoe imi- folia in Acmilia tased the Macedonian manner of arming, are termed Chalcaspides in Polybins: I have s Poyblings faced the Macedonian manner of a ming, action of the institution of Lycurgus of that, h Xnno deren.

The weed that the Lacedemonians had brafen targets by the institution of Lycurgus of that, h Xnno deren. in the time of the Heroes almost all ermour was made of brasse. The targets of the Lacede-i Paula in Baomonians that were fline at the battaile of Leuttra were braffe, and to bee feene in the time with see of Pausanius: and the brasen target of Pyrrhus, Which he left at Argos, being there staine, k Pausan in Con Was kept in the temple of Cres. As for the weight, it is not fo great but it may become light enough by vie and exercil wee fee iron targets in vie at this day, and not hard to be borne. And albeit the Weight bee not for every mans frength, yet fince it hath beene, and is, the manner to make choice of fouldiers, and to fitte them with armes according to the ability of their bodies, I fee noe reason, but the stronger fort might Well bear them. Another fort of targets there was which differed from the Macedonian not formuch in forme of roundnelle, as in matter, and manner of carrieng. They were made of wicker, and borne in the left hand as our bucklers, which wee veed not long fince; and fome covered over with hides, some not. Ixmorade xp. "Xenophon faith that Cyrus the elder armed the Persians with these Wicker targets: Freko m Xenoph Cyr. ning up the nations, through Whose Countries the Gracians passed in their returns out of Perfia, & describing their armes, " reporteth that the Chalybes, Taochi, & Phasians had targets nxenop.dexpe. of this kinde. Now, that they were borne in the left hand, is clear by the same Xenoph, o Hee o Xenoph Cyre, writeth thus of the fight betwixt Cyrus & Crafus. The Egyptians & Persians encoun-16-7-177 E. tring together, the fight was hard, & sharpe: & the Egyptians aswel in number as in armes, had the advantage. For they fought with stiffe, long pikes, & theire large targets better covered their bodies, then Curaces, or wicker targets, and being borne on their shoulders availed to joint thrusting foreward. Serring therefore their targets close, they advaunced, & ranne on. The Persians were not able to endure the shock, by reason they bore theire Wicker targets at the armes end, but retiring by litle, & litle, & giving, & taking blowes, they mainteined the fight till they came to the Engins. So farre Xenophon. Out of which words a man may plainely understand the manner of bearing these wicker targets, which by rea-Son of lightnesse might easily bee held out at armes end. And as the Egyptian target , which reached downe to the foote , must needes bee heavy , and therefore had zeed of the shoulder to support it, so was it with the brasen targets of the Macedonians, Which were also weighty, by reasonof the matter, they were made of. These therefore Were like wife caried on the shoulder. Plutarch witnesset it in the life of Amilius. And the same Plutarch rehear 6th that Cleomenes the King of Sparta taught his Lacedamonians, in steede of a speare, to we a pike with hoth handes, and to beare their

5 The

The Tadicks targets upon the strappe not by the handle. The wordes are obscure, & need light, which Mixins, w- I will give as (bortly, as I can. I find three wordes emongest the Gracians, all perteyning to agarges. They are those Telamon, ochane, or ochanon, and porpax. Telamon in this Cince (for it fignifiesth otherwife a band is by all confessed to bee the broade strappe, which & fastened to the handle of the target of boldeth the target being caft about the necke, unto Sails in com the back of Ochane, & porpax is some variance. 2 Suidas faith that Ochanon is to zederma b Herdan & Faring. The hold of the target b Hefrehins calleth is the Porpax of the target, & in the band, More Of Porpax Helychius faith it is the handle of the target, of taketh Porpe in the same sence, making it the thing bearing up the targett into which

the hand and arme to the elbow is thrust. d Suidas faith, Porpax is it, that they hold the target by which is called ochanes: & againe, that some take it for the band of the target; other fome for the middel iron that goeth through the target, on which the fouldier taketh hold. So that both He fychius, & Suidas agree, that Ochanon & Porpax are sometime alone, and signify the handle of the Target. In 1. Which fence Herodoius & Paufinias take O chanon alfo. Hefychius further interpretesh

1934 it for the band of the target (diepus) which signification better agreet b with the meaning of Plutarch, who maketh an apparant difference betwixt the, reporting that Cleomenes taught the Lacedemonians to cary their targets, by the Ochane, not by the Porpax, When he faith brithe Ochane, bee meaneth by the strappe, by which, being fastened about the necke, the sarger is shrowne over to the back, or restesh voon the left [houlder. That, which I fay, will bester appeare if we marke, what the Lacedemonians did before, & what Cleomenes advifesh them unto. Before they caried a speare in the right hand, and a target by the handle in the left, fo that both their hands were ful. The speare was not able to match the enemies pike g Plotarchia vi (for & Cleomenes bad often to doe With the Macedonians & Achaans, whoe both wfed pikes)

or pikes, the Lacedemonians could not wield, with one hand. So then, to give them liberty of both bands, he counselled the to cary their targets at theire backs by the strappe or Ochane (which was the Macedonian manner) and not to hold them any more by the Porpax or handle; and so to free their left hand, to apply both to the menaging of a pike. This I take to be the direct meaning of Plutarch : Cleomenes then per swaded them to leave theire speares, & take pikes. And lest the target in the left hand might prove an impediment to the vice of apike, hee thought best they (hould cary them at their backe by the Ochane. To cary them then by the strappe at the backe is to give free vee to the left hand, without which a pike, specially a long pike, such as Cleomenes advised them unto, cannot be wielded : as experience will teache any man, that list to make triall.

4 Andlong pikes. Pikes for the most parte have beene called by two names by the Gracians; Doru, and Sarissa. Alian nameth them Dorata both heere, and in other places of this book. Azenophon, speaking of the weapons of the Chalybes , faith they had Dorata of 15. cubits long ; armed with iron at one end onely. Tet is Doru taken for a speare oftentimes , as in that place of Plutarch last recited where Cleomenes per swaded the Lacedemonians to chaunge theire Dorata (speares) & Plux in Phila into Sariffas (pikes.) The like recounteth hee of & Philopamen, who chaunged the feares of the Acheans into pikes, calling the speares, Dorata, the pikes, Sarissas. And even in this place Alian termeth them not Dorata simply, but with addition of Perimekestera, of along sife. And after describing the armes of the

Peltastes hee faith theire (peares (Dorata) were much (horter then the pikes (Sarista) of the armed. Properly the pike of the Macedonian is termed Sarifa ; if sometime Doru, some other word is added to avoide the ordinary signification of Doru; as 1 Konerde cop. Doru macron im Xenophon, Doru perimekes in Alian. Tet deny I not , but it may bee called Doru of the matter. For Doru signifieth wood of any kinde : and

by consequent the wood, a pike is made of. But, as I faid, the Macedonian vike is properly called Sarista. What the length of this pike was , Elian will shewe in the 14. Chapter. And for the wood it was made of, I take it to have beene Corneil. For I find that the Macedonian horsemans staffe was of that wood. 2 Arrian confirmeth a Arma the. it faieng: And nowe the Macedonians had the better both by reason of the 15th strength of theire bodies, and experience in warre, and also because they fought with Corneil launces against Iavelins. For I affent not to the translater of Arrian whoe turneth Xystois Craneinois into Corneil dartes, whereit should bee. Corneil launces. For in that place Alexander is reported to have fought with a launce, and to have broken it in fight, and to have asked another of Aretes, one of the Quiries of his stable, whoe had also broke his, and fought with the truncheon, and to have taken the launce of Divarates the Corinthian, and returned prefently to the fight , and therewith overthrowne Mithridates the sonne in lawe of Da. rime. Besides it is said, that the Macedonians had the advantage in weapons; Take it thus, that they fought with dartes against lavelins, what advantage had they? especially being come to the shock: Dartes are vied a farre of. At hand noe man figh. teth with them, unlesse hee have noe other weapon. I thinke noe man will deny, but that a lavelin in closing is more advantagious then a darte. And that Xvston fignifieth a launce Alian himself testifieth in this Chapter calling the launciers Doratophori, or Xystophori. The Macedonian then had his horsemans faffe of Corneil. Whis Pliny affirmeth to bee a found and a fast wood. If b Pliny never his launce: aman may bably coniecture, his pike also, which exceeded the launce in length and thicknesse onely. Wee at this day preferre the Ashe before all woodes for toughnesse; lightnesse and beautie: especially if the vaine runne through to theend. Notwithstanding I finde in Cicuta a knight of Venice, an old souldier, and Aurel. Cicuta one that followed the Emperour Charles the fift in his warres of Africk, that the opinion lb.2,212 of his time enclynedrather to Firse, both for lightneffe, and frength. I have not feene the experience: therefore leave I the indgement to triall. Wee have then out of Alian that the armed, had both target and pike, that one man should at one time we both target, and pike in fight, against the enemy will seeme incredible in our dayes. Tet wied the Macedonian fouldiers both; at one instant they both charged theire pikes, and covered them selves with theire targets against the slying weapons of the enemy. The manner was this: when they closed with the enemy, they charged theire pikes with both handes, and with a flight wrying of the body, and lifting up the right shoulder, whirled their target. hanging at their backe, upon the left houlder, that flood next the enemy in the charge: and so covered all theire body to the midle, and beneath. I have touched it in the practise of Cleomenes. It appeareth more plainely in Plutarch, describing the battaile betwixt K. Perfeus, and the Conful Amilius, Hee hath this: d'The enemy approaching Ami- d Pleanch in lius issued out of his Campe, and fownd the legionary Macedonians, bearing nowe the heades of their pikes stiffe vpon the targets of the Romans, not suffering them to come vp to the fword: which when hee fawe, and fawe with all the other Macedonians casting about their targets from behinde their shoulders, and receiving the Roman targetiers with their pikes abased together at one fignal, and likewise the firmenesse of the battaile shutte vp, & serred, & the roughnesse of the front (the pikes lyeng out before) he became astonied, & affrighted, as having never before beheld fo fearefull a fight. Which paffion,& spectacle, hee afterward oftentimes recounted to his familier friends. This ionsing of targets in the front is called Synaspismos: whereof wee shall have occasion to Speake heere after.

5 The light. They had divers names given them in the Greek history. Some-Polyblatist times they are called Euzoni, because they so girded up theire apparaile about the that B. Atten dipone they were light and fitt for motion: Sometimes Askeuoi, because they beare no mili-Renounde at Experience of defence : Sometimes d'Elaphroi because they resemble (as some think) 304.2.

Paula in An a harte in lightnesse, and swiftnesse : Sometimes Gynnicta (naked) because they were ad 35. 4 Konoble ex. without defensius armes: Sometimes Psyloi (naked or light) as they are beere termed 144 Amoph. Cyr. the Gracians, and they beare onely flieng weapons. h Kenophon tellifieth that Cyrus the n Amonn. The British elder had them: And the Gracians in theire returne out of Persia: Alexander had i Kenoph deer. Phem in his warre against Darius: and Pyrrhus in his warre in Italy, Sicill and Greece: & the 43.16 A.

A trian Italy, The Gracians against Bremnus King of the Gaules: Both the Athenians, & Thebans Phuarch in at the battaile of Delos. 7 Arrowes] Archers have alwayes beene of speciall esteeme for the field, and preferred before the other kindes of light-armed. Many nations have beene commended for theire skill in shooting. Emongest the Gracians the Cretans were (of auncient time) fole archers, as Paulanias witnesseth. Tet was not theire service aquall with the fervice of the Persians. For Xenophon confesseth, that the Persian bowe overreached the Cretan a great way: and that the Rhodians with theire fling owt-threw the Cretan bow. Of the Carduchans a people, through whose Countrey the Gracians passed at their rexonohide en turne out of Persian Xenophon writeth thus : They caried noe other armes , then ped Cyri, lib. 4 bowes and flinges. They were excellent archers: and had bowes well night three cubits long; arrowes more, then two Cubits. When they shotte, they drewe the string, applieng theire hand some what toward the neither end of the bowe, setting their eleft foote foreward. With their earrowes they pierced both targets, and Curates. The Gracians putting thonges to the middest of their earrowes sent them back at the enemy in steede of Dartes. The Came in effect is reported by Diodorus Siculus. Of the Parthian hor femen, Appian (aith: When Craffus commaunded the light-armed to dif band, & goe to the charge, they went not farre, but meeting with many arrowes, and being fore galled with them, they retired streight, and hid themselues emongest the armed, and gave beginning of diforder, and feare, repræsenting to the fight of the rest, the force, and violence of the shotte, that rent all armes, they fell vppon, and made way aswell thorough bodies, that had the best, as the worst furniture defensive: giving mighty and violent strokes from stiffe and great bowes, and forcing out the arrowe boifteroufly with the compasse, and bent r Plearch in Of the bowe. Plutarch hath the very wordes, that are in Appian. The Indians crafto Courting lib 2 also were good archers, albeit not much praised by Q. Curtius, Hee saith: theire arrowes were two Cubits long, which they deliver out of theire bowes, with more labour, then effect: for as much as the arrow, whose whole efficacy is in lightnesse, becometh altogether vnwieldy by reason of the weight. And ret hee telleth, that Alexander, at the assault of the principall City of the Mallians, was strooke thorough his Curace into the side beneath the pappes with an Ine Phorech in A. dian arrowe: with whome 'Plutarch and Died. Siculus accord. Arrian addeth the leand Died. 6: wound was so deep, that his breath was seene to issue out together with his Art. 16 139 E blood. The Gothes and other people of the north, that invaded the Roman empire, z vege. lb. s.c. had theire chiefe victories against the Romans by the help of bowes, and arrowes. = Vegetius (before alleaged) speaketh it plainely: So our souldiers, saith bee, vnarmed

both bodies and heads, encountring with the Gothes, were oftentimes wholy defeated, and flaine, with the multitude of their earrowes. I may not pretermitte the praise of our nation in this skill. Our owne stories testify that the great battailes, we earned against the french, were garned by the ioint-shooting of our archers principal. ly. And that the English have hereto fore excelled in archery & shooting, is cleere by the te-Stimony even of Strangers. a Cicuta (whom I named before) commending the vice of bows, a sorel. Gota as necessary for the fruice of the field (& that long after gunnes were invented) prafer-lib 2.200. reth the Englesh before all other, and setteth him downers a patterne for other to follow. A2d Patritius, disputing of the violence of arrows, doubteth not to affirme, that an En- b Paule Paralle glish arrowe with a litle waxe put vpo the point of the head, wil passe through 3 PE 37 any ordinary Corflette or Curace. How forver the credit of bowes is loft, at this prefent with many great fouldiers, yet have they of auncient time been highly prifed. Vege. e vegetible es tius faith; how great advantage good archers bring in fight, both Cato in his 15 bookes of military discipline doth shewe evidently, and Claudius, by augmenting the number of archers, and teaching of them the vse of theire bowes. overcame the enemy, whome before hee was not able to matche. Scipio Africanus (the yonger) being to give battaile to the Numantines. that before had forced a Roman army to passe voder the yoake, thought hee could not otherwise haue the better, vnlesse hee mingled chosen archers in every Contur and Leo the Emperour in his Constitutions milita- a Leound S. ry hath this Constitution rongest other : You shall commiun fall the Roman youth, till they come to fourty yeares of age, whether they have meaneskill in shooting, or not, to cary bowes & quivers of arrowes. For fince the art of shoo ting hath been neglected, many, & great losses have befullen the Romans, And in another place : eyou shall enioyne the Commaunders under you, in winter to e toom no take a view, and to fignify to the Turmerches (Coronells) now many horse, & 40. what kinde of armes the fouldiers, vnder their commaundes, stand in need of, that necessary provision bee made, & the souldiers be furnished in time convenient. But specially you are to have care of archers; & that they, who e remaine at home, & haue vacation from warre, hold bowes and arrowes in their howfes. For carelessnessie heerin hath brought great dammage to the Roman State. So Leo. This of ould time was the opinion of the Romans concerning archers. Home wee are fallen out with them in our dayes (the skill of the bowe, being a quality so commendable, and so proper to our nation) I knowe not, unlesse fire-weapons perhaps have put them out of countena ince. And furely it may not bee denied, that the force of fireweapons of our time doth farre exceed the beight of all old inventions for another the enemy. And, when I have given them the first place. I will not doubt to give the Second to bowes and arrowes being for farre from casting them of that I would rather follow the wisdome of the Gracians; whoe albeit they esteemed arrowes the best slieng wear pons, yet thought it not amise to hold in vie slinges, and dartes. Every weapon hath it property; and that which is fitte for one service, is not so fitte for another. The fireweapons have theire advantages . They have also theire disadvantages. Theire advansage is , they pierce all defence of armour , and lighting upon a place of the body , the wound whereof endaungereth life, they bring with them certeine death. Theire difidvantages are, they are not alwayes certeine, sometimes for want of charging, sometimes through overcharging, Cometimes the bullet rowling out, Cometimes for want of good powder, or of dryed powder, sometimes because of an ill dryed matche, not fitte to coale, or notwell cocked. Besides they are somewhat long in charging, while the musketist takes downe his musket, vncockes the matche, blo wes, proynes, shuttes, casts of the pan,

caftes about the musket . opens his charges , chargeth , drawes out his stonring ficke. rammes in the powder, drawes out againe, and puts up his skowring flick, layes ebe musket on the reft, blowes of the matche, cockes, and tryes it, gardes the pan, and formakes ready. All which actions must necessarily bee observed, if you will not faile of the true vfe of a muftet. In raine, fnome fogges, or Aben the enemy hath gayned the winde they have small wfe. Adde that but oneranke (that is the first) can give fire upon the enemy at once. For the refi behinde, discharging, finall either wound theire owne Companions before, or else shoose as randon, and so nothing endaunger the enemy, the force of a market being onely availeable at point blanck. Contrary visite the diladvantage of arrowes is in the weaknesse of the stroke, which is not able to enter a Curace , that the foote or horse nome vie. Tet can noe meather bee founde . where in wos may not have good vie of bowes: raine , frome , winde , haile , fogges , binder litle (efpecially the string of the bowe being not to Wette) may rather profit Because in them you can bardly discerne, much leffe av oide the fall of the arrowe. As for quicknesse in delivery the borne farre excelleth the musket. I good single archer is able to give five Shorte in exchange for one of the musketier; and that with such cert inty, that you hall not beare of an archer that miffeth the delivery of his arrow, where the musketier. often failesh by reason of the accidents and impediments before by mee rehears d. loine that a whole squadron of archers, being embattailed , may stoote at once together : which onely the first ranke of musketiers may doe. And make the case there were a hundred musketters, and a hundred bowe-men eche digested into ten f les , eche file contegning ten men. she bowe men shall bee able to shoote at once a hundred arrowes (all theire arrowes) for ten bullets given by the musketiers, namely those ten of the first ranke discharging alone. Is must not bee presermitted, that the bowe and quiver both for marching, or all service, are lighter and of leffe labour to vie, then a musket, which is noe fmall advantage in armes and fight. To conclude the bowe-men may beeplaced behinde the armed foote . and Presidente, get in shooting over the Phalange anon the enemy before torning, and all the time of fight, even whileft they are at pushe of pike; where the musketier, thereplaced, must either idlely look on , or elfe playeng with his musket , most of all endaunger his owner friendes. Reither is the force of arrowes fo weake, as is immagined, noe not in the arming of our dayes. For the pike albeit hee have his head and body covered, yet are his legges, and feete, his armes, and handes open to woundes : any of which parts being wounded bringes a disability of service. To say nothing of his face, and eyes, before which the showers of arrowes falling like a tempest without intermission, must needes breed a remedile (e terrour, and make him thinke rather of faving him felfe, then offen. ding his enemy. The musketier being also wnarmed is as subject to the shotte of arrowes. as the archer is to the (botte of the musket; and the arrow touching any vitall parte, as much taketh away life, as doth the musket. Lastly a horse-man for his owne person (1 must confesse) is safe enough from the dannger of arrowes by reason of his armour but his bor le , being a faire and large mark , and having neither barbe , nor pettorall . nor our he elle to hide his head or breast, how can hee escape woundes! Witnesse our fieldes in France, where our Archers alwayes beate the frenche horfe, being barbed, and betser armed, then our hor fe are, at this day. And for the bloudy effect of bowes the story of Plutarch is worth the reherfing He in the life of Crasus hath thus: , The Parthians opposing the Cataphracts against the Roman horse, the other Persians galloping heer and there difperfedly, and troubling the face of the field, broke vp from the bottom, hills of fand, that raised infinite dust, whereby the Romans loft theire fight and voice: and thronging together, & thrufting one another were wounded, and died not a simple, or quicke deathe, but tormented with convultions

convulsions and panges of grief, wallowing vp, and downe, in the fande to breake the arrowes in theire woundes, or else endevouring to pluck out the hooked heades, which had pierced vaines and finewes, renting a freshe themfelues, & adding torment to torment: so that many died in this manner, & the rest became unprofitable. And when Publius Crassus defired them once more to charge the Cataphracts, they shewed their handes nailed to their targets, and theire feete fastened to the grownde, whereby they were vnable either to fly, or fight. These wonders did the Parthian bowes, which notwithstanding were not to bee compared to our auncient English bowes, either for strength, or farre shooting. And that wee may not seeme to rely upon antiquity alone. The battaile of Cursolare (com. a Pavic, parals monly called the battaile of Lepanto) fought in our dayes betwist the Turkes & Christia mil.part. a. 19 ans by fea may ferue for an experience of the service of bowes and arrowes. In which there died of the Christians by the arrowes of the Turkes aboue fine thowsand, albeit they were in calleges and ships, and had theire blindes pretended to save from sight, and mark of the Turks, where as the artillery of all forts of the Christians consumed not so many Turkes: notwithstanding the Christians had the victory. Nowe then for us to leave the bowe. being a weapon of so great efficacy, so ready, so familiar, and as it were so domesticall to our nation, to which wee were wont to bee accustomed from our Cradle, because other nations take themselves to the Musket, bath not so much as any shewe of reason. Other nations may well for beare hat, they never had. Neither Italian, nor Spaniard, nor Frenche, nor Dutche, ha thefe five hundred years, been accounted Archers. It was a skill almost appropriated to our nation. By it, wee gayned the battailes of Cress, of Poitiers, of Agincourt, in France: of Navarre, in Spaine: By it, wee made our selues famous over Christendome. Ind to give it over upon a conceit onely (for noe experience can say that our bowe was ever beaten out of the field by the musket) will proue an immitation of Afops dogge, whoe carieng a piece of fleshe in his mouth over a river , and leine the shadowe in the water, snatched at the shadowe , and left the stelle, I speake not this to abase the service of muskets, which all men must acknowledge to bee great: I onely shewe, there may bee good wse of bowes, if our archers were such , as they were went : which is not to bee dispaired , and will easily come with exer-

8 Dartes] The names of dartes are divers in the Greek Story. A Darte is often called Acontion: and thereof cometh Acontizo, to throwe a darte, and darters are called Acontista. So doth Alian heere terme a darte. Sometimes a darte u ter b Xenon de enp.

Grubb 3:306.C med Palton of the verbe # #22 & signifieng to shake or make quiver. The word Palton is a Artible 154 depth of much vsed in Arrian and Azenophon especially, when they speake of the Persian dartes. ib. io D. lib Tete Diodorus Siculus nameth the Persian darte Saunion: which name also is given e Diod Sic to a Gracian darte by Plutarch, and by the same Diodorus. Sometimes a darte is named 17 573 & Ib. 14 Doration: Doru, as I faid, being a Speare, and Doration according to Suidas, a little 10 c strpe no Speare, or darte. Alian vseth the word in this Chap. Lonche, albeit it properly signify ped Cyril. 13.33a the head of speare, or darte, yet dothir sometimes signify the darte it self, So is it ta-ne 90 the ken in & Xenophon, when hee telleth, that slieng weapons began to walk on all sides, horzue, & Xenophoe ex-(that is dartes) arrowes, and stones out of stinges, and some out bands, And Dio. 152.C dorus Siculus hath havori (w the haryen, to throwe darter, even in the actes of Alexan. h Diod. Sicol H. der. I ct wee find that speares were also cast under that name, and Xenophon: "7607. & etc. Saith, that the Thebans cast Dorata against the Lacedamonians. The Darte hath graciis \$75 D. beene in vse emongest all nations. The matter, fashion, and force of the Roman darte may bee seene in k Vegetius, and in Lipsius his Commentaries ad Polybium. k Vegeties ce The manner of the darting of the Macedonian armed appeareth in the fight betwirt Liplad Polyb.

Choragus, and Dioxippus before by mee mentioned: where wee find that Choragus caft

fir # vin Minn 2 (Lanceam Suith Curtius) at Diox ppus, when hee thought him with a Cartillo sti in his reache. But the darters, here spoken of, are of the light-armid. Such barting the superthe Agrians in Alexanders Campe, who in all attempts of speedwere imployed by Alexander, and served to purpose by reason of the relightnesse. The datte of the Gracian was a stender shaven piece of wood, about three feote long, armed at one end with ahead of iron with a sharpe point, to the end to pierce, what sower it should Polyblis 458 E fall upon. For the length, I giu: , tt differeth not from the Roman durte in Polybius: and Kenophon feem: th to affirme it, when speaking of the arrowes of the Carduchans, on de faith they were longer, then two cubits, & addeth, the Græcians sent them ped Cor. 16.4. che lutt they were longer, energe content of the middest of these dartes 22.0. & Dout the middest of these dartes sould the per backe againe at the enemy in stede of D. 18.5. About the middest of these dartes sould be the per longer, they they fastened athong, which was called arrown, wherein, inserting theire foresinger, they launced the darte with more facility. X nopho witne feth it in the same place, and n & Xemph de cr. another place hie faith, d Xenophon communded the tai getiers to marche with theire fingers in the thonges of theire dartes, the archers with theire arrowes nocked, the flingers with their fery ppes fall of stones, that they might be redy to let fly, when they were commaunded. These dartes were forcible enough to pierce e Keooch. Ha. armoures of that time, and that with them alone Iphicrates overthrew and distroyed a whole Mort of the Licedemonians, which people were accounted the best armed, and the most valuant of the Greekes before the Macedonians came in credit.

9 Stones.] There are heere mentioned two manner of throwing stones, the one with the sling, the other with hand alone, The stones, thrown with the sling, sty with much more violence, then the stones throwne with the hand: and, being cast with a skillfull and frong arme, they reache a greater way, then a man would thinke. And yet not fo farre, as bullets throwne out of a fling, which by Xenophons report outreached the Persian arrowes. Exemph.deca. I have before touched the story. I will nowe lay downe Xenophons wordes, i The Gracians (those ten thow fund, that returned out of Persia and or the leading of Cherisophus, & Xenophon) had not marched farre, before Mithridates appeared againe with 200. horse, and 400. Archers & slingers, which were very nimble & light, Hee came close vp to the Græcians as a friend. Being neer, some of his horf., & foote began to shoote, other to sling, & to wound the Græcians. The reare Commaunders of the Gracians were hardly bested. Yet could they doe nothing to anoy the enemy. For the Cretans shoote not so farre, as the Persians, & carieng noe armour of defence, they were faine to hide themselues with in the body of the armed; & the Darters were not able to reache the flingers of the enemy. X enophon therefore having the rear, thought good to charge and follow the enemy. But hee was notable to overtake them, (for the Græcians had noe horse) & the Barbarian horsemen, shooting backward in theire flight, wounded many of them, that gaue the chace. To remedy this inconvenience Xenophons advice was to provide horse as many, as they could. And hearing, that there were many R hodians in the Campe, skillful in flinging, whose flings reached twice as farre, as the Persian sling (for the Persians vsed stones, that filled the hand the Rhodians leaden bullets) hee likewife advifed to armethem with flings, an lyse theire service. The next day the Græcians furnished out 50 horse, & 200 flingers. And when Mithridates shewed himselfe againe with a thowfand horse, & soure thowsand archers, & slingers, and came up to charge, both the Rhodian bullets light emongest his troupes, and the 50 hotse issuing forth fell vpon the enemy and put him to flight, and flew many of the foote in the chace, and tooke eighteene horse. Weemay heer note two kind of flinges one with the stone, the other with the bullet : and besides, that the Rhodian sling with the bullet over-reached both Cretan, and Persian bowe : which was yet afterward

more plainely declared, when Tiffaphernes charging the Grecians with his Persian archers, the Rhodian flinges fo terrified him, that both himfelfe, and his troopes with a Menophaleer drews. And allbort hee followed a fare of, yet durft hee noe more approache, but 300 suffered them quiety to murche all that day, and many other afterward. In this arte of flinging, allthough many nations laboured, yet were there very fewe, that excelled. The o Bible maketh mention of seaven hundred Gybeonites, whose skill was excel- bld care is Lent in Anging. Of other nations none might compare with the Baleares: of whom > 8.207 Diodorus Siculus writeth thus: Theire armor is three flinges, whereof they have one about theire heades, another about theire waste, the third in theire hand. In warre they cast greater stones, then any other, and with such force, that they may seeme to bee sent out of a Catapult. Therefore in sieges and as. faults of Cities they wound the defendants of the walles, and in the field breake targets, and head-pieces, and all defensive armes. They ayme so certeinely at any marke, that they feldome faile in hitting. The cause is theire continuall practife from theire childhode, theire mothers continually enforcing them to fling, even when they are yet children. For fetting vp bread vpon a poste, as a marke, they are not allowed to eate, vntill they hitte it.and haue it given them by theire mothers to eate. So farre Diodorus Siculus: with whom d Vegetius agreeth. The same Vegetius saith that slinges were made d vegetheres either of flaxe, or haire, The forme was that it had two ends, the one faltened to the hand, the othe olet slippe, being broadest in the middest, lest the stone should fall to in Sac. out. Diodorus hath before expressed with what force a stone went out of a sling. We - E vegulapus getius addeth, that they are more violent, then any arrows : piercing head-pieces , Curaces , and other armes. The fane " Vegetius limiteth the & Vegetiac.s pace of theire reache to fix hundred foote : and faith, that flinges at that distance were seene often to hitte the marke : and attributeth as much to archers. h There are, that affirme, that a leaden bellet fent out of a sling will melt with the webe- h Onelandcaro ment motion of the aire. Let the credit bee with the reporters. Wee have not found that experiences in our pieces, which notwithstanding force out theire bullet with fire, & that with greater violence, then any hand fling can doc. For stones to bee cast with the hand i Veget, 1 2.6.23 fee Veretius. Polybius commendeth the vee of them.

10 The armour of the Argilos | What this Argilos should meane, I seelearned doubt, and I have little to fay. Whether it come as a diminitive from agres (fwift) or from a City of Thrace, called Argilos, or from any other original I will not affirme. Heere if the text been not corrupted, and the worde crept in , or exchaunged by the negligence of some copier, it must signific a targetter. Which Alians description makethevident. That there was such a Ctty in Thrace you shall finde in , Thucydides. And that the Thracian foote for the most part were Targetiers, & Thucy 14.528 I remember, I have read in Xenophon. But then a question may againe arise, Cals. secon feing the inhabitants of that City were not called argiloi but argilioi (for the City it felf was called Argilos) why the Targetier should be called Argilos . and not Argilios. The chaunge is not great. Many such mistakings are to be found in transcribing of Copies. But I thinke rather there is an errour in the text; and that for two causes. First because Alian dividing the fort into three kindes, Armed, Targetiers, and light-armed, and discourfing of the armed and light-armed expressely by name, not so much as nameth the Targeticr, but under the name of Argilos. Then for that Lipfius (whether I Lipfius al Pobee had another copy of Alian, I cannot tell) citing this very place of Alian, ci- i in fine. teth other wordes, then heere wee find. The Targetiers, faith hee, (out of

Alian as hee pratendeth) vse, as it were, a middle kinde of arming. For their Target, called Pelta, is a little light Target, and theire pikes come much short of the Pikes of the armed. Vnlejfe happily Lipfius have borrowed the wordes out of Suidas imagining them to be Elians, and fo citeth them under his name. For I finde them in Suidas in the explication of military appellations; but I finde them in noe editition of Alian, that hit herto hath beene printed.

A litle flight target called Pelta | The forme of this litle target is diver ly a Scholiaft. Thu expressed by divers Authors. The Scholiastes of Thucydides giveth it a Tetragonall a Scionant, the express any airvers aminors.

2 the surface of fouresided shape: with whom also immeth Suidas, Hesselms saith, Pelta is a little target having noe circumference, meaning, I thinke, it is not rounde. Hee faith al. loit is a Thracian weapon: to both which lignifications Suidas agreeth. The Thracia ans vied thele kindes of Targets, and often lent the le Targetiers to lerue the Grecians.

d Thoryd.lib.2, d Nymphodorus (feeking to make a league betweet the Athenians and Sitalces King of Thracia) promised to procure Sitalces to fend them an army of horse, and Peltasts (Targetiers.) Xenophon (peaking of the Thracians, that asaulted his lodging telleth, that e Xenophdeen eafter the Trumpet founded, and many of his fouldiers came to his aide, the Thracians T. Cyrl. 110.7. fled casting, as their emanner was, their eT argets (Peltas) at their backes. T When temper but the property of the property o

f Xenoph. hist. Dercyllidas invaded Bithynia, Seuthes the K. of Thrace sent him horse and Peltasts (targetiers) to his aide. But the Pelta, that Alian heere mentioneth, was rounde. s suidas in In- & Suidas in the wordes, before alleaged by Lipfius, as out of Alian called this target Af-

pidisce : that is a little Aspis, such as the Macedonians bore, which were without all auastionrounde. The invention of this Pelta is attributed to Iphicrates the Athe. b Diodesicul.lib. nian. b For whereas the Athenians before his time v sed large round targets (aspides) Probing to blind which were not fo eafy to bee wielded, being heavy, he provided them litle targets to make them light, and quick for all fervice. He altered not the forme of the round.

i Aemil us Pro- nesse, but diminissed the weight, in abating of the breadth. Amilius Probus suth, bas in Iphicase. hee made them beare litle targets (Peltas) in steede of large rounde targets (Parme,) where vppon they were ever after called Peltasta. The invention therefore of this kinde of Target is attributed to Iphicrates. For the litle targets of other

k xenop, deex formes were long before the age of Iphicrates. Lyrus the yonger had Gracian T argetiers
pc. Cyriub. 1, in his army: and the Gracians at theire returne out of Persia: and likewise those, that 1 Xenop, ibid lib iouned with Thrasqubulus to recover Athens out of the handes of the thirty Tyrants. All 1 Acrops to the 19 year with 1 mayoutus to recover Atners out of the nances of the thirty 1 years. Au 5,47A & 16,434; which were before Iphicrates time. Lipfius taketh the Pelta to differ litle or nothing D.E. m X-noph histo. from the Parma velitaris of the Romans, which doubtlessew us round. Polybius faith,

grae h. 1. 77. E. the Roman horse-mens targets (Parme) were like to Cakes named Popana, lest in 1. Com-which according to Suidus were broade, rounde, thinne Cakes.

mentin Polyb.

12 And his pike is much shorter I stir bee as Diodorus Siculus and Amilius

12 And his pike is much shorter] If it bee as Diodorus Siculus and Amiliue winds in Po- Probus report, that Iphicrates was the inventer of the armes of the Targetier, the pike (hould bee litle shorter, then the Macedonian pike. Hee gaue them litle targets for great Targets, and doubled the length of theire pike, and sword. If the length of the pike were doubled. I cannot see, how it should come much shorte of the Macedonian Pike. But it may bee, they were long at first, and that afterward vie, and commodity brought them to a lesse sife, to the end the souldier should bee nimble and ready at charges. But A Acmil. Prob. had the Peltast noe other armes, then are heere mentioned? Hee had. And I first hee had inspherate.

a linen Curace for lightnesse sake, and then a sword of double length to his former sword. x Xeronh de ex. Further hee had dartes : Xenophon telleth that, in the battaile betwixt Artaxerxes of pei Cyri. lib. 1. Cyrus, Tisaphernes charged the Gracian Targetiers, whoe divided themselves into two partes, and plied his horse with dartes as bee passed through them. The same Xenophon

s xenoph ibid Lafterward telleth of the Targetiers under his commaunde, that hee directed them, to

hold their fingers in the thongs of theire dartes, and bee ready to throw, when

fix. Which made mee once doubt, whether Alexander ever vied them or noe. Since

upon better consideration I am induced to thinke, though the name in the story faileth.

Tet the kinde of fouldiers, so armed, and so appointed, as Elian describeth, may easily bee

found : and that under the name of Hypaipistes. Which name albeit most usually signific

him, that carries another mans Target, yet is it also applied to souldiers, that are neither

ander, when hee fawe the streights of Cilicia possessed with a strong gard, left Parmenio behinde withall, that were heavy armed, himselfe about the first.

watche taking the Hypaspista, and the Archers, and the Agrians (who were

hee gaue a figne: a And that these very T argetiers of Iphicrates with theire dartes a Xenoth histo. and other missive weapons destroyed a whole Mora of the Lacedemonians without com-

ming neere or closing with them. Tet Leo giveth the Targetiers noe more, then tar- b Leo cap 6 \$. gets, and speares (Dorata.) But in that (as in many other thinges) I make noe doubt, 37

bee followeth Elian, whose wordes also hee well nighe reteynes, aswell in this place, as many other. In perufing the story of Alexander (in Arrian, the most faithfull histoaian of his deedes) I find noe Targetiers by the name of Peltasta in all his army. The names of Armed, of archers, of Darters, of flingers I meete often: but not of Pelta-

light, nor heavy-armed, of which kinde the Targetiers were, as a meane bet wixt both. That Hypaspistes signifieth noe heavy armed, may bee evident by the wordes of Arrian. Alex - An. Hb. 11.8

darters, as I have shewed) led on in the night toward the streights, purposing to fall vpon the w che, before hee was looked for. Hee left all the heavy-armed with Parmenio, and tooke the Hypaspista with him. And in another place hee faith: Alexander commaunded the Hypaspistæ first to passe the river, and af-d Artiber, A. ter them the Macedonian armed. Hee distinguisheth the Hypaspista from the armed. And streight after : C Three dayes after Alexander understanding that Cleitus & Glaucias were ill lodged with theire army, & neither held watche, nor had cast a trenche for theire owne security (for they imagined Alexander marched away for feare) and that theire Campe was firetched out to a needleffelength, secretly repassed the river a litle before night, leading with him the Hypaspists, and the archers, and the Agrians, and the Phalanges of Perdiccas and Coenus. And in the same booke at the affault of Thebes, when Perdiccas had engaged himselfe and brought Amyntas with his troupes in the same danger, Alexan. der lothe to leave them in hazard, advaunced with the rest of his army, and gave a signe to the archers and Agrians to enter the trenche, the Agemata (Livy translateth them legions) and Hypaspists hee held without. So that in all these places hee distinguisheth them from the heavy armed, and maketh the Hypaspists one, the heavy-armed another. I might alleage other passages out of the same author, but these will suffise. That they were not of the light armed may bee proued by the same places of Arrian. Where they are al waies distinquished from the archers and Dariers, There targets make them unfit for slingers, and mention of flingers I find in other places. The very name she weth that they carry targets. and the great Etymologicon allo weth them spears beside their targets Whereby they are clearely exempted from the light armed it remainesh then, that they be the peltasta, which Alian heere speaketh of, especially since they were armed with target and speare, which armes hee giveth to his targetiers, and to no other, except it be to the armed. 13 Cataphracts The horsemen are divided into two kinds , Cataphracts' comtleat

armed and not Cataphracts. Cataphracts are those, that cover themselves and horse with armor. Not Catathracts, that fight with launces, or with flieng weapons. Livytermeth Cataphracts (Loricatos) because they wore curases The other fort are either launciers or files. Actobolists. Acrobolists came not to the shocke, but plyed the enimy a farre of with

flieng weapons. The Launciers closed, and charged the ennemy with theire launces. The word Cataphrasso (to cover with armes) giveth name to the horsemen Cataphracts: and as the horsemen are called Cataphracts, lo is the furniture of horse and man called Cataphragma. How they were armed Elian (he weth when he faith they cover them salues and their hor ses with armour yet was it not always, that the whole hor e 2 Xenorh Cyro was armed. 2 For Xenor hon speaking of the Persians in the time of the elder Cyrus, faith, they armed there horses with frontlets and pectoralls & covers for there b xenoph deer thighes. As much hee faith of b the fix hundred ho fethat followed Crrus the sounger ped Cyro, libs. against Artanerxes, savingethey wanted cover for there thighes. The horsementhemselves he giveth great Curaffes, and cuiffes, and head pieces. So it appeareth that the horfe were not all over armed but onely theire heads their breafts and there forethiches. Tet Payareb Speaking of the Cataphrasts in the time of Lucullus, Suith, theire leggs, and thighes were unarmed. Concerning the Parthians Suidas, I know not out of What Suther, bath thus: The Cuiaffe of the Parthian horsemen is made in this manner: The part be. fore covereth his breast, and thighes, and his hands to the fingers end, and his leggs. The hinder-part, his backe, and necke, and all his head. There are buttons made for the fides, with which both the parts being fast aned, it make the the whole horsemen seem, as if hee were made of iron. The iron neither hindreth the firstching out, nor the gathering vp of his limbs, it is so exactly fitted to the nature, and sife of all parts of the body. Likewise they arme there whole horse with iron, except his hooses, because theire owne armor would little availe, in case theire horse miscaried. Cu tius discribeth the forme in the Perfian horsemen, whose furniture, bee saith, was made of plate fastened together in e Applin Parth, continued dependances of scales of iron Applan speaking how the Parthians seeking 10 terrify Crassus, and his army . upon the sudd line cast away the covers of theire armour, and both them (elues appeared in shining curasses, and head-pieces the Margian iron of Which they were made dutting forth a flashing, and dispersed twinkling light, and their horses glistring in brasen, and tron furniture. Tet doth Appian in the sime place note, d Appin in Par that the bellys of the febre, was not armed. d For the french horsemen faith be, that they present that the bellys of the febre as Do. & followed young Crassus, when they perceived, how little they prevailed with theire staues against the sure, and unpierceable as mour of the Parthians ligh. ting from theire owne, and creeping under the Parthian horses, stroke them into the bellys, and they impatient of paine and flinging heere, and there, an I treading under foote, as well their riders as their enemies, died in the place. Plutarch hath the like. The Cataphracts, beside theire armour of deserce, had a launce, or e Van. to Lucul. horsemans staffe, to sight with all. "Plutarch affirmes it: Lucullus, saith hee, after hee fawe Tigranes his Cataphract hor femen (whoe were of most acount) defended as it were, by a hill, that had the ground about plaine, and broade, & the afcent (which was about fower furlongs in length) not very hard or steepe, commaunded the Thracian, and gaule horsemen, hee had, to give vppon the flanke, and to put by the launces with theire fwords: For the onely strength of the Cataphract is his launce, and it alone hee is able to vice either in defence of himselfe, or annoying the enimic: being by reason of the weight and harshnes of his furniture like a man shutte, and locked up in a wall, Hetherto Plutarch. Like tife the Part' in Cataphracts, albeit they we fedbone, and arrows yet they Prais Accom, had alfo launces, with which they came to the flocke with the enemie. When the armie of Anthony (faith the same Plutarch) sawe the Parthians ready to give on, the armed turning their faces about toward the enimie, tooke in the light armed, and shutt them vp with in theire battels: themselves kneeling vpon one knee.

held out theire targets before, the second rankes with theire targets covered the heads, and upperparts of the foremost, & the following rankes did the like one for another, the figure was like the tyling of a house, & represented a shew worth the feeing, and was the furest defence that might bee, to make the arrowes glaunce of, without harme doing. The Parthians imagining this kneeling proceeded from wearinesse, and faintnesse, layed aside their bowes, and taking in hand their launces, ranne vppon the Romans, whoe giving a jointe showte sprung up presently, and striking them with their darts, slewe the first, and put the rest to flight. By the se two testimonies the launce of the Cataphrast is clearly proved. In what manner the Cataphracts came to fight, Nazarius (cited by Stewechius) sheweth plainely in a Panegyrick of his. The Cataphracts, (aith hee, stewechius in in whome was the principall strength of the field, vse this discrpline in charging. After closing their files, they keepe an equalitie in moving forward to charge, & being free from wounds, they break without difficulty any strength of battel opposed against them. They are saide to bee free from wounds, because both themselves & horses (especially before) are covered with sure armes. Theire movine must be Now, because of the weight of theire armes, which slownesse was recompensed with the violence of theire charge, which neither horfe, nor foote was able to refift. And vet a Appian in they had another incoveniesce, in that, being overthrowne, or slipping, or falling to the Parities 14. A. ground, neither horf nor man, were able easily to raise themselves againe. Suchwas the weight of theire armo

of Ælian.

14. Launciers are fuch] Launciers, faith Alian , ioine with the enemy, & fight hand to hand with the launce. And did not the Cataphracts for They did, but theire armour differed much. The Cataphracts both horse and man, were all over armed. The horse of the Launciers was not armed, and himselfe, albeit heewere armed, yet not so armed, but that many parts of his body were bare of armes. And his armour came much short of the compleate. Arrian saith that the Macedonians being launciers were not able to encounter with the Scythians, whoe were Cataphracts, both because of theire number, and also of theire manner of arming. And as the Launciers armour was not so bequie, as the Compleate, so was it more heavie, then the armour of the foote. Xenophon seemeth to signifie so much, telling of himselfe, that taking the targetiers of the front, and some out of the midst of the hollow square battaile, and three hundred chosen men, that Cherisophus had with him in the front, hee marched away with all speed to seise vpon the toppe of a certaine hill. b And exhorting b xenoph.de cos his fouldiers to haste, you may well, quoth Sotridas, the Sicionian, talke of a haste, that are on horseback. I, in the meane time with this heavie target, am fcarce able to marche. Xenophon hearing this, streight dismounted, and disranking Sotridas, tooke away his target, and with it on his shoulder continued his hast in marching. By chance hee had on at that time a horsemans armour, where with although he were overpressed, yet slacked hee nothing of his pace. The rest of the souldiers beating and reviling Sotridas compelled him borh to his target, and place againe. At last they gained the hill, they purposed, and made the enemie abandon the nether ground. Xenophon was hereoverpresed with the horsemans armour. If it had beene but equall in weight with a foote mans, hee might, as well have endured it, as the rest. Plutarch sheweth likewise the Plurch in Ple weight of the hor smans armour. Philopamen, faith hee, willing yet to give more logam. frength to the Kings party (hee meaneth Antigonus, the gardian of Phillip afterward King of Macedonia) & to come to hands with the enemy that was already in route, lighted from his horse, and in a horsmans Curace, and heavie

armour,

16 Acrobolists] The word importeth such, as throwe alost, or from aloste. Ballo fignifieth to throwe : Acron, the highest, or the uttermost. By common usage Acrobolizo is taken for to dart, and by consequent to skirmish a farreof. Because such as east flieng weapons, as darts, and froncs, and the like, came not to fledfast fight, but lay aloofe, and onel, threwe their weapons at the enemy, and of so doing are called Acrobolists. Acrobolismos in Polybius is interpreted Skirmishing. And a Diodorus a Diodorus a Diodorus abit it as s. Seculus ionneth Acrobol. simos, and a short meddley in fight together, which Xenophon b termeth Acrobolisis by another word flowing from the Jame fountaine.

17 Tarentines] They are so called of a Citty in Italy Tarentum by name, the inhabitants whereof, that were hor semen, vsed this manner of fight. But he maketh two kinds of Tarentines; one, that ever fought a farre of with darts, and never came to band with the enemy, the other, that after a dart or two cast, came close up, and fought hand to hand. Livy speaketh of a third kind of Tarentines, who wied in fight two e Liv decad to borfes at once made fast together, and one being weary, leaped upon the back of the libs sac

18 Some vse darts a farre of] Of the manner of fight of these lor semen, the paf-Sage of Xenophon is worth repeating. d After these things done, faith hee, the aide d Xenoph His. of Dionysius (which hee sent the Lacedemonians) arrived, being more, then twenty Gallyes. They brought French, and Spaniards, and aboue fifty horse. The next day the Thebans, and theire confederats, embattailing theirearmie, and filling the vith the whole plaine even to the sea-side, & to the hills, that lay about the City (of Corinth) destroyed what soever, might serue to any vie. The horsemen of the Athenians, and Corinthians, seeing the strength, and multitude of the enemy, came not neere vnto them : but the horfmen of Dionysius, albeit sewe in number, galloping heere, and there, dispersedly, and putting spurrs to theire ho se, charged them with their darts, and in case the enemy followed, they returned with all speed, and then turned againe, and threw darts afresh. In docing these things they vsed to alight from theire horse, and rest themselves, and if any of the enemy singled out to fall vpon them, leaping quickly againe to horse-backe, they fled; and being pursued any distance from the army, as soone as those that pursued them retired, the Tarentines followed, and plyed them with their darts, and put them to great distresse: forcing the whole armie to advance, and retire, as they list themfelues. So farre Xenophon. Another example I will adde out of Livy of the Numidians, whose manner of fight is all one with the Tarentine manner. In Ligu- e Livderd & ria faith hee, nothing worthy of memorie was done a long time. At the end of the s. 85.2. the yeare all things were brought to extreame hafard. For both the Confuls camp, being affaulted, was hardly defended, and not long after, when the armie was ledd through a forrest, the way whereof was streight, and narrowe, the Ligurians possessed themselves of the mouth of the straights. Through which when the Consull could find no passage, hee turned about his armie, and purposed to reduct it, the way he came. But the mouth of those straights was likewise possessed by a part of the enemies forces. And now the remembrance of the Desaster of Caudium presented it self not onely to the minds, but even almost to the eyes of euery man. There were wellnigh eight hundred Numidian horseat that time in the camp. The Commaunder of them promised the Consult to breake through on which side, hee pleased; onely he defired to know on which fide most hamblets, and villages were. Vpon them, faid hee, I will fall, and fett the houles on fire presently, that, that seare may

armour, wrestling hardly, and laboriously e on foote with the ground, that was rough, & full of brooks, & ditches, hee was strooken through the thighes with a darte: the stroke beinge not daungerors, but forceble, so that the head passed through both his thighes. Hence both the heaviness of the Launciers furniture may bee feen, and that Philopamens thighes were unarmed, through both which at once hee was wounded with a darte : And so the Launcier not so surely armed, as the Ca-* Polyb. Ib. 6. taphract. The armes, that the Launcier bore are described by 2 Polybius speaking of the armes of the Roman horsemen; who writeth thus: The armour of theire horsemen is at this day like the Græcian. Of old they had noe curaces, but fought in short gownes girded to them. By reason whereof they were ready, & active to alight from, and gett vp quickly, on theire horses. But their fight was daungerous with the enemy, because they wanted armes. Theirestaues had two incommodities. For, being made slender and quivering, they neither could touche the mark, they aymed at, and most of them, shaken with the motion of the horse, fell out to bee broken, before the head touched, or fastened vpon any thing. Ioyne, that, having no iron point at the butt end, they ferved but for one stroke onely, and that at the first. And yet the head being broken of. the remnant of the staffe was of noe vse. The targets they had, were made of oxe-hyde in formelike to cakes named Popana, which are vsed in sacrifices. And they were neither fitte to encounter the enemy by reason they had noe stiffnesse or fastnesse in resistance, and being resolved, and soked, or putrified with raine, they could not bee any thing worthe. Finding these inconveniences by experience, they quickly chaunged for the Græcian armour; In which the first stroke of the head of the staffe is certeyne, and worketh the designed effect, by reason of the forme, which is not quivering, but stiffe and sturdy: & likewise turning foreward the butte end, which is armed with a sharpe point. they might therewith fasten a found, and forcible blowe vpon the enemy. The like may be faid of the Targets, which both in charging, and defending, haue a fure & vnfailable vse. Which they noe sooner saw, then imitated. For the Romans, if any other nation, are good to change their fashions, and to choose that, which is best, wheresoever they finde it. The Launcier then had a Curace, a head-piece, a launce, and a sword for his armes, and this was generall in Launciers; but some had besides a target, and were therefore called targetters. The Launciers were called in greeke Doratophoroi, or Xestophoroi: two severall appellations in shewe, but signifieng in deed but one thing, the one heing derived from the matter, the other from the Arcennon forme of the launce. Doru, as I faid before, signifieth wood: and because all the Launden Kytton and ciers armes excepting the launce, were of other matter, then wood, the launce was called Doru, (of the wood) and the Launciers Doratophoroi. As for Xyston, or Xeston (for they signify one thing) it commeth of the verbe Xuo, or Xeo to shaue, or polish (as our ionners doe) and the launces, being made of wood shaven, or polished, are named Xysta, or Xesta, of the forme (as I said) that is given them by shaving, and the Launciers, that beare thef: launces, Xestophoroi, or Xystophoroi. Ind heere I am once to note for all, that wee are not to presse wordes according to the proper signification of theire primitives. from whence they are derived. For considering there are more things, then names of things (as Logicians say) the most copious language, that is cannot give proper names to all Heereof come the wordes of divers significations. Ind how soever names seeme at first rough & straunge, vse, and custome makes h them smooth, and gives them passage. is the come of a Prince is currant by the flamp, hee Ceteth voon the mettalle, what mettalle so ever it bee. fine, or base.

16 Acro-

The framing of a Phalange, and definition of the art Tactick.

CHAP. III.

BVt feeing every Phalange conteineth an uniting of bodies, offices of commaund, orders in place, a Convenient number of men, and wordes of Direction aswell for daily exercise, or trayning, as for true fights, It seemeth necesfary to deduce euery of these things into perticularity. The first labour therefore in the art T actick is for a Generall out of a multitude, that cometh to hand confused, to choose the fittest men, and dispose them into convenient places (that is to order them into files, and bodies) and of the whole number to proportion a reasonable levie, & fitting the service in hand. For to dispose and enable an Army, skillfully to march, to encampe, & to embattaile, is a matter of no small consequence. In asmuch as we often find mightie Armies through their disorder to haue been defeated by 4a handfull of men wel disciplined & exercised. Wherefore Aneas defineth this art to bee a science of warlike motion: Polybius, To be a skill whereby a man taking a multitude serviceable ordereth it into siles, and bodies, and inst teth it sufficiently in all things pertayning to warre.

Notes.

THE first labour] After provision of armour followeth choice of men. What men, and out of what climats, and of what profession, and of what age, and of what constitution of body, and of what education are to be chosen, because Alian referreth to the discretion of the Generall, not setting downe any particular, I will likewise passe over, noting onely some places, where hee, that is disposed to seeke, may finde the cireumstances of choice of souldiers. Xenoph. Cyrop.lib. 1.32. A.B. Polyb. lib. 6.406. C. Et Lipf. ad Polyb.lib.t. Dialogo. 2.3.4.5. Veget.lib.t. cap. 2.3.4.5.6.7. Lt Stewechius ad bacomnia cap. 31.

2 A reasonable leuy and fitting the service Levyes are to be made according Sections 45 to the warre, which is undertaken. The enemie is not alwaies of one strength. Sometimes 378 the forces, against which wee are to lead our armie, are more, sometimes lesse. The Romans, if the number of enemies were not very great, vfed but a a Confular Armie; which a polyb lines consisted of two legions of Romans, and of as many foote of theire Allies; when greatest, onely joyned two Consular armies together. And for Allies theire foote, as I said, was C. equall with the Roman foote, theire horse were treble as many, and the Romans having three hundred horse to a Legion, the Allies had nine bundred. Tetin case of great polyb 16, 6,467 necessitie, weereade, that the number of the Legions was increased in a Consular armie. Polybius reporteth that, a little before the battaile of Canne, the Confuls Lucius Amilius, and C. Terentius, had allowed in theire armie, which they led against Anniball, eight Legions, which never was done before. b Maxander b Dodsialib. the great being to invade the Kingdome of Persia, which for wealth, multitude of men, and largenesse of Territorie, was esteemed the richest, mightiest, and greatest Empire at that time in the world, had not in his armie aboue one and thirty thoufand foote, and five thousand, and odde, horse. . Armies composed of multi-c veget is act tudes are neither fitt to bee guided, and commanded, nor yet to bee provided for.

compell the Ligurians to forfake the streights, they hould, and runne severall wayes to defend theire owne. The Confull much commended the man, and Iided him with hopes of promises. The Numidians vp to horse, and began to ride heere and there, before the enemies gards, provoking vet no man. Nothing at the first fight was more contemptible. The horie, and men, were little, and leans. The horsman ungirded, and unarmed, saving that hee cartied darts; the horse without a bridle galloping deformedly with a stiffe neck, and a head thrust out at length. They purposely augmenting this contempt flid from their horses, and dallied, and sported, to bring the enemie to a gaze. Wherefore the enemy, which at first were intentine, and ready for a charge, became gazers on, and the most part vnarmed themselues, & sett downe vpon the ground. The Numidians rode vp neerer, and then backe againe, and by little, and little, gott to the skirts of the forest; as if theire horses, being resty, had caried them forward against theire wills. At last, putting spurres to they broke through the midst of theire enemies gards, & entring into a larger field, they fett fire on all the houses next the way; then burned they the next village, and wasted, and filled, all things with fire, and sword. The smoke first scene, then the cry of the people affrighted, lattly ould men, and children, flieng for succor, raised a tumult in the campe. Therefore without coansell or commaund every man of himself ranne to the defence of his owne, and in a. moment both the enemies camp was forfaken, & the Confull, delivered from his fiege, came to the place intended. By thefetwo examples the kinde of fight, that Posts lib. 3. these darters one horse-backe maintained, may be perceived, which was a not to come neer the enemy, but to keep a loofe, and lett theire daris fiv. Besides not to observe any order

The Tacticks

in files, or rankes, but fraglingly to gallop the field, seking by theire difbanding to tolle the enemy out of his strength, and so to worke theire advantage. And albeit in the second example, the Numidians wied not theire darts, yet they would have done it, if need D Liv. decad : had beene; and you shall find in other places of Livy, and Polybius, they did voually as

li. 2 (2.C. & 10- also in Casar.

19 After they have spent one or two] These darters on horsebacke differ from the other before mentioned, because at the last they ione, and fight hand to hand with the enemy; which the other didnot. And what fight they with all! not with launce : for then should they be Launciers, of whom wee have spoken. But they fight with battel-axes, A Arcer in noise swordes, and such other short weapons. Suidas affirmethit, alleged by dreerius: Thele, faith hee, at first cast light darts a farre of, and afterward approaching, jovne with the enemy, fighting with battell-axes, or fwords; which kind they

call light-horsemen.

The horsemen, that vie bowes] I need not alled ze any thing to shewe that the Scythians were good archers. It is knowne to any man, that is not ignorant of Hiflory. I will onely nove, that in flieng from the enemy, they harmed as much, as in falling on. For as they fled they turned half theire hodies backeward, and shotte at him. that followed, and expected noe fach thing. Of which fashion of fight Plut arch gineth Morain Craf. this indgement. . The Parthians, faith hee, in theire flight shoote backward, & doe it best of all other, except the Scythians; the invention being witty, both to faue themselves by that defence, and also to take away the shame of flight, Exmoph de ex- That which Plutarch attributeth to the Scythians and Parthians, Exenophon faith, the Persians vsed also, both for manner of fight, and flight.

The

And her that trusteth to multitudes, esteemeth not greatly the valour of his souldiers. a Fromin. lib 4. a Xerxes saide, he was not foiled by the Grecians through default of number, but because hee wanted men. Asit is folly to leuy more men , then is needfull, so is it rashnesse, or b Kenopia Age- b rather madnesse to put a few souldiers to hasard against forces, that exceed in number, and valour. Briefly all levies are to bee tempered with consideration of per-

sons, times, places, and other circumstances.

For to dispose and enable an Armie] Heere are sett downe in a word, as it were, the principall heads of the art of warre, Marching, Incamping, and embattailing: to which heads all other may very well beereferred. And of thefethree Alian handleth in this treatise but two, namely embattailing, and marching : of embattailing, so much. as perteineth to forming of a common Macedonian Phalange; of Marching, no more, then belongeth to embattailing in a march, that is to ordering of your men in that figure. which shall reald most advantage against the enemy, that meeteth you; excepting that hee shortly toucheth the marshalling of baggage in your marche. The other considerations of marching, as laying, or avoyding ambushes, sending out to discouer, when to march by night, when by day, how to deceive and avoyde the enemy lyeng neere, remedies against horse, against shotte, against multitudes, passages of mountaines, of woods, of rivers, of plaines, of drye, and fandy places, these, I (ay, and such like, hee toucheth not in aword. And for the skill of encamping, which comprehendeth the feating of your camp, and provision of all things belonging thereto. as also the siege, and defence of Citties, and fortresses, hee likewise passeth it over with silence, as a thing not incident to his purposed discourse.

4 A handfull of men well disciplined and exercised] What exercise doth for the making of good fouldiers, experience of former times will teache. It hath been the e vegetlib. a.ca. manner of all famous generalls to bring theire foul diers to perfection by exercise. Vegetim faith very well, It is not length of life, or number of yeares, that teacheth the art of warre, but continuall discipline & meditation of armes. Let a souldier serue never so many years, so long, as hee is vnexercised, hee shall bee still a raw fouldier. The knowledge and Cience of armes maketh a fouldier, which is not gayned but by action. As long as a fouldier handleth not his weapons, hee is noe Actor, but a looker on. For as all abilities in artes (which are called Habits) ariseout of anumber of actions preceding, so can noe man atterne to a perfect knowledge of armes, till hee have with care, and diligence, employed his study and labour therein, and upon the foundation of practife raised the frame of sound and perfect skill. Noe man is naturally borne a fouldier. One may more incline to warre then another, but the skill commeth not

Plus in Pelop without industry and paines. d Plutarch faith, that it is neither Eurotas nor the place betwixt Babyx and Gnacion, that bringeth foorth valiant and warlicke men, but they are to bee found in all places, where youth is bred vp in shame of vice, and boldnesse to undergoe perill for vertues fake. Eurotas was a river

Plus in Lycus, neere Lacedamon; e Babyx and Gnacion two rivers within the same City. The Lacedamonians were accounted the most valiant people of Greece. And Plutarch heaketh this of the victory, which the Thebans had against the Lacedamonians; The Thebans, which till that day had noe reputation of valour; but afterward by exercife, & vse of armes, under Epaminondas, and Pelovidas, became the bravest souldiers of Greece: Not whike was the faieng of Pyrrhus to his muster-master : choose you, faid hee, good bodies, and I will make them good fouldiers. The strength of the body eventimes is requisite in a souldier to undergoe the labours of marre; but exercise it is that giveth E Cicerin Bruto the perfect skill, and the desire to handle weapons. Therefore as Demosthenes, being de-

maunded what was the first and principall thing in the arte Oratory, answered Action,

what the second, Action, what the third, Action: So may weetruely say, that in the art military exercise is not onely the first, second, of third, principall thing to make a souldier, but also all in all. Alian speaketh not of exercise but in Generall: what particuler exercise is fitt for a fouldier, hee, that defireth to knowe, let him reade, Xenoph. Cyrop. lib. 2.42. B. C. & lib.3.77. C. D. Veget. lib.1. ad caput. 9. ad caput. 19. & lib.2. caput. 23.24. Iuft. Lip (. comment. ad Polyb. lib.s. dialog. 14. Leo. caput. 7. Patric. Parallel. parte 2.130. Now for the victories, that have beene observed by a small number of men well exercifed, against amultitude vnskillfull, and untrained, I need, say nothing. Histories are plentifull witnesses therein. I will onely recite one example wherein the difference may bee seene no: between skillfull, and waskillfull, but between skillfull, and skillfull both enured to labour, and both brought up under the same practife, and discipline of Armes. At what time , after the death of Alexander the great , his chiefest Commaunders fell at oddes emongest themselves; and sought every man to establish himledf in the possession of his Conquests, it chaunced that Antigonus, and Eumenes came together in two fundry battailes. In the first Antigonus had in his army aboue 28000 foote. \$500. horse, & 63. Elephants; Eumenis lesse foote, 17000 in all (but emongest them 3000. Argyrafpides, whoe had served in all Alexanders battailes, & were invincible, & strok a great feare into the enemies harts) & about the number of horse, his enemy had, & So. Blephants: a When the foote came to joyne, faith Diodorus Siculus, the fight continemed a Diodor. Sicul agoodwhile, of at last, many falling on either side, Eumenes his foote had the better by reason of the valour of the Macedonian Argyraspides. They, albeit they were stroken in years, yet in regard of the manifold perills, they had been in, excelled in courage, & skill of fight in fo much that no man was able to withfland them. And therefore being but 3000 in number, they were notwithstan. ding fett against the enemy, as the strength of the whole army. In the other battaile he (peaketh of their age. At that time, faith he, the yongest of the Argyraspi- b Diodor. Sieule des were noe lesse, then 60, years olde, or thereabout; the most of the rest about 161,19.693 70, & some were elder, al of the vnmatcheable in skill & readinesse of fight, & ftrength of body: such was theire dexterity, and courage gathered in continuance of dangers, which they had paffed, Afterward rehearling the battaile, he faith: The Argyraspides serring themselues close, and with lively force falling vpon the enemy, killed some, and put other some to flight. And fought against the whole Phalange of the enemy with irrefiftible fury, not loofing one of theire owne men, & yet through skill & manhood flayeng of the enemy aboue 5000. & routed theire whole foote, which in number were many times more, then themselves. Thus writeth Diodorus Siculus of the olde practifed Macedonians: who yet fought not against straungers, or rawe souldiers, or such, as were newly brought into the field, but against men of their owne nation, that had long handled armes, or wonne many victories, & been instituted, and trained in the same discipline and course military, that they themselves had been before: Such difference long practife, and experience wrought in the one against the other.

What a file, or Decury is, and of how many

men it consisteth. CHAP. IIII.

O order into files is to make files. A file is a number of men begin-I ning at one Leader, and contineuing in order of followers to the last man. The

of Elian.

4.I

The number of a file is diverfly given, 2 for some allow it eight, some twelve, and some fixteen men. Wee for this time will retaine the number of sixteen. both because that number is proportionable to the indifferent length of a Phalange, and also, if vse require at any time to double the depth thereof. and to give it thirty two men, or to lessen, and contract it, and make it but eight: neither of both shall hinder the service of the light-armed behinde, i for whether they vse Darts, or flings, or Arrowes, they may easelie with their flieng weapons overreache the depth of the Phalange.

Notes.

Next after arming, and choyee of souldiers, it followeth to put them in order for Service, that is first to file them, then to band them (which is loyning of files) and lastly to embattaile them, which is to make a Phalange. Of the se in the following chapters.

I To make files The Tacticks have not expressed the precepts of this artesall in the same wordes. I file is heere called Lochos, the signification whereof is dia Polyan lib.; vers. Sometimes it is taken for an a Ambushe, and Lochan significant lye in Ambushe, and Lochan significant lye in Ambushe. bush: it signifies beside a number of men, that are of one body, as it were, and un. der one commaunder, who is called Lochagos, and Lochizo is to sett in files.

The number of this body hath beene diversly taken. The Thebans Lochos Hieros b Polyan. lib. 2. first instituted by b Gorgidas, or as other say by c Epaminondas, consisted of three in Gorgia.

Alten dipnot hundred men. The Lochos of the Laced emonians of five hundred and twelve. c. Atten diprod. Nutareamen. The LOCIOS of the Laced amonians of fine hundred and twelue.

16 Ha: in pelop. Xenophon in his returne out of Perfix et elleth, that the number of the Lochoi of the exempled Cyrills.

24:10 Chole extraordinarie men to preferve the Plansium (a haller form). chose extraordinarie men to preserve the Plassium (a hollow forme of square battaile

E Xenoph.de ex. where in the Gracians marched) from breaking, they appointed if fix Lochoi, of a pel. Cri lib. 1. hundred a piece, for that purpose, and Commaunders to leade them. And after heereckoneth seventy men to a Lochos. And in the first booke of Cyrus his expe-

8 Kenophdeex- dition, heetelleth & of two Lochoi of the armed of the Regiment of Menon, that were staine by the inhabitants of Cilicia, and counted them a hundred men. Cyrus in the same Xenophon commaundeth his Lochos to bee made of twenty foure men. But the Lochos, that Alian heere speaketh of is a lesse number, namely

h Arrian lib. 7. fixteene, which was the file of the Macedonians, as appeareth by h Arrian, and 164D. Streene, which was the file of the Macedonians, as appeareth by h Arrian, and 160b, lib. 17. Polybius. Albeit Arrian calleth it not Lochos, but Decas; and Polybius the depth of the battaile. This number of fixteene was vied by the Gracians also before King

k Xemoph. hist Phillips time, as appeareth by K Xenophon in his historie of the Gracians. And likewise Thueyd. ub. 6. by Thueydides, who reporteth, that the Siracusans were so ordered against the Athenians. Leo faith it was the manner of the auncient warriers to make a file of sixteen, & callethit a Tetragonall number.

2 Some allow it eight, some twelue 7 The Lacedamonians made the depth of theire battaile sometimes eight men (for a file is it, that measureth the depth of the m Thoused lib. 5 battaile) and so fought with theire enemies. Thucydides witnesseth as much: the Lacedamonians. Saith hee, were not alwaies ordered in depth alike, but as theire Lochagoi (they were commaunders of fiue hundred and twelue a piece) thought good, commonly notwithstanding the depth was of eight a " Xenoph histo piece. " Xenophon also writeth, that Dercyllidas the Lacedamonian, being to fight with Tillaphernes, and Pharnabazus, ordered his Phalange into eight. The same

o Kenoph histo. proportion was helde by o Mnasippus the Lacedamonian against the Corcyraans,

and by a Clearchus the Lacedemonian against his enemies. Xenothen such that Thrasphu. and by a Clearchus the Lacedemonian against ris enemies. Aenormon saun, and a masson a Polyen, libe.

Lus the Athenian, faileng om of Pyraum against Pausanias the Lacedemonian king, ran. a Polyen, libe.

has been the failed and the other are beautiful. ged his men into eight. His wordes are : When Thrasybulus and the other ar- b xe med fawe these things, they quickly gaue aide to theire owne people, and grada 477 CD put theire armed in order eight deepe. Paufanias being hardly layed vnto, and retiring foure or flue furlongs, commaunded the Lacedemonians, and theire Allies, to refort vnto him, and there casting his men into a deepe Phalange, ledde against the Athenians. Out of Which Words wee may note, that the Lacedemonians observed not alwaies that order of eight deepe, but varied according to place, or other circumstance. Tet ordinarily they gaue but eight to a file, or to the depth of theire Phalange, as Thucydides Witnesseth before. The same Thras bulus With his & Kenoph hit. complices entring the base Citty of Athens called Pyraum to free his countric from Cit bondage of the thirty tyrants, having but a fewe with him, possessed the court, which led to the temple of Diana, called Munychia, and being affaulted by the garrison of the Lacedæmonians, ordered his armed men into ten deepe, and the light armed behinde them. The tyrants, and theire followers stood in battaile fifty deepe. det the battaile of Leuctra the Lacedamo. d Xenoph. bif. nian armed meretwelue in depth, the Thebans fifty. . Alexander the great leading his gractio 590. C armie against Clitus, and Glaucias, the way being so narrow, that no more then foure might marche in front, made the depth of his armie a hundred and twenty. And the fixenoph de car fouldiers that Xenophon brought backe out of Persia, when they purposed to sacke Byzant. 319.D. um, put themselves without commaunde in order of fifty deep?. In the text is fifty deepe , but the margent hath eight : which I take to bee the truer reading , because Xcnophon faith, the place was faire to fett a battaile, being voide of building, and having an even plaine. And it was not the manner of the Gracians to make a Phalange fifty deepe, wnlesse there were extraordinarie occasion. & In the battaile of Delos between the Athe- & Thueyd lib.4. nians, and Thebans, the Thebans were five and twenty in depth, the Athenians but eight. The same h Athenian were eight in depth against the Syracusans. So that the h Thucydlib. depth of eight was much vsed among the Gracians. How-be-it I find not, that they cal- 458.A led a file of eight by the name of Lochos. Crus the elder made his files of twelve i Kenoph Cyrop led a file of eight by the name of Lochos. men, and the leader thereof hee called and tradagnos, and disadagnos, and the file it selfe decas, Which in signification albeit it importeten, yet wee must retaine the Word, as it is vscd, and not fly to the originall of the Etimologie, as I noted before upon other occasion. But Alian maketh his file of fixten. His reason followeth.

3 For whether they vie darts &c.] The file being fixten in number, the fouldiers therein every one having after-distance from other three foote, take up in the whole depth fourty eight foote, and being doubled to thirty two men, they take up ninety fix foote, which amounteth to thirty two yards. That bowes and slings easilie out reache this distance, apie weth by Vegetius, before by mee alleaged, who saith, they stroke their api marke fix hundred foote of, which in our account by fcores, is ten fcore. Of the darte a man may rather doubt, which notwithstanding with an exercised arme is sent much further, then thirty two yards. Lipfius writeth, that a dart was vfually cast | Lipfad Polyb. foure hundred foots, which amounteth to a hundred thirty three yardes, or as weein shoting measureit, six score and odde. The reason why Alian placed the light armed be-

bind wee shall see beere after in fitt place.

The order and parts of a file or Decury.

CHAP. V.

THE best man of every file is the first in place, and hee, that leadeth the file, who is also called the file-leader, the Commaunder, & the fore-stander. The last man of the file is called the Reare-Commaunder, or bringer-up. The whole file it self is termed a verse, and a Decany, and of some an Enomosy. Yet there are, that hold Enomotia for the sowerth parte of a file, and the Commaunder of an Enomosy they call Enomotarcha, and two Enomoties they take for a Dimery, & name the Commaunder thereof Dimerites, so that the half file is said to bee a Dimery, and the Commaunder Dimerites. This man is the last of the file. Hee, that standeth next behinde the file-leader, is named a follower, and the next after him a Leader, and the next after him a gaine a follower. So that the whole file consistent of Leaders, & followers placed successively one after another. It behough the file-leader to bee more sufficient, then the rest of the file, and next him the Leader of the half-file, or bringer-up. They define a file to bee a Rowe of followers placed according to their worth successively after a file-leader.

Notes.

THE best man of every file. Why the file-leader ought to bee the best man of the file many reasons may bee given first because hee commaundeth therest. And as in all other things hee that is to rule, and governe another ought to have more knowledge, then hee that is commaunded, and governed, so is it in matter of warre. Further, as his skill, so his valour, ought to bee most: that his example may incourage and incite the rest. Which is the cause, that other commaunders also are placed in front. and in the eye of the fouldiers that theire valour & forwardnes may bread an honest emulation in the fouldiers to doe, as they doe. Besides, the first place is most beseeming him, that best deserveth, and the more valiant a man is, the more hee desireth to shewe it in the face of the enemy, thereby to winne him (elf honor, and reputation. Furthermore, hee may doe best fervice in the front, by entring into the enemies battaile, and making way for the rest. Not valike a sworde, whose edge maketh speedy passage into the thing, it cutteth, and draweth after it the rest of the iron, bee it never so blunt. In the front, the Plumrch in Ps. ranke of the file leaders give the push to gaine the field. Which reason I thinke lead a Gorvidas the first institutor of the Theban Hieros Lochos, not to make an entire trouve thereof apart but to place it man by man in the first ranke of the Phalance. Lastly the fight of the file leaders, being the choice of the armie, both for stature, and resolution (for b Action cap. 13 6 Action would have them) breads a terrour in the minde of the enemy. Who, seeing fuch gallants in the front, have cause to imagine that the rest of the armie, which they see not, is like to those they see. And, being never so valiant, they had rather have to doe with weake, and relenting then flout, and resolute adversaries. As at the battaile of d Liv.docada st Canna d Annibal answered one, that brought him nerves, that the Consull had commanded the horse men to alight, and sight one foote, how much rather would I, quoth hee, hee had delivered them bound into my hands. I have heard many hold opinion, that the manner of the Gracians, to bring theire best men first to fight, is contra-

so to the institution of the Romans, who held the Triary (theire eldest, and best souldiers) in the rear, and brought them not to ioyne, till both the Haffati, and Principes were beasen, or retired. But if wee consider the diversity of both their embattailings, wee shall See noe great difference, or at lest wee shall see, that the reason of placing their-best men pus not much different. The Gracians in framing theire foure-fold Phalange made in Length an even front of a 1024. files. The files were 16. deepe, and the best men therefore In front, because being placed in the midst, or in the reare, there would have beene no vse of theire valour, and the Phalange might have beene broken, before it had come to theire surnes to fight. The Romans contrary-wife, in ordering a Legion, mademany maniples, and gave the front to the Hastati, the middest to the Principes, the reare to the Triany. Nowe the Triary being ordered in the Reare, might at the beginning bee brought to fight in Front, if need were; being noe need, they kept their eplace, till their Generalls Sound it fit to call upon them. So then this is the difference. The File-leaders of the Gracians had the Front, because otherwise in so deep a body, as the Phalange Nas, they could not have Some to fight: The Triary might alwayes have beene imployed in Front, in fanke, or in the geare, as pleased the Generall. And that the Romans also in their scueral Maniples plased theire best men in Front, I cannot doubt. There stood the Centurions, which were the leaders of the Maniples, and in reason were to bee seconded with the hest men under theire commaund. C. Crastinus may serue for an example viboc being noe Centurion, but an Evo. a Casa de bell. Late, in the bastaile of Pharfaly betwirt Cafar & Pompey, bidde his Manipulers (they were of the Maniple, which hee once commainded) to followe him, and faid Thee would make his Generall give him thanks alive, or dead. Tet must I confesse, shat the front Gras not the proper place of the Evocates. But hee chofe the front, and held it a place Northy of his valour. It is faid of Catiline that, when hee fought with C. Anto. b. Saluft. de conprins, hee placed in the front of his army, all the chosen Centurions, and Evocates, and befides of common fouldiers fuch, as were best armed. Livy spear c Living decad. king of a fight betwixt the Romans, and the Latines, and describing the forme of the Roman 110.8.pag, 214. A battaile, after hee had limited the place of the Hastati, & Principes, writeth thus of the Triarij. After the enfignes (hee meaneth the Standards of the Legions) not the Enfignes of Maniples, were ten other Maniples; whereof every one had three Enfignes. The first Enfigneled the Triarij, ould souldiers of tryed valor, the Inext the Rorarij, not foe well efteemed for fivength in either age, or deeds, the third the Accensi, a troupe of lest trust, which was the cause, that they were cast in the reare. The Accensi were put in the reare, because there was not great opiinion of theire valor; the Triary had the front, because they were ould souldiers, and had beene fusficiently tryed. Soe then in dividing of their armie into small bodies, or battailions, the Romans differed from the Gracians: in placing the best men of theire maniples in front, they observed the same manner, that the Gracians did in placing theire fileleaders in the first ranke of the Phalange.

2 Averse I have translated stichos a verse. The more visuall signification is 4 rome of any thing placed orderly. & Soe Nenophon applieth it to trees, which were planted a xenopino. orderly one after another, and Full athies to the finnding of dauncers one after another in a teller in find depth every as our fouldiers are placed one after another in file. Inlius Pollux also acknow-4.cep 10. ledgeth, that there were files, and ranks in Choro, that is in dannes upon the flage. But Suidas faith it was commonly taken for a line, which was read from the left to right " Suidas invethand. And to say the truth a verse, as wee read at this day, and as they read, when Alian Firete this treatife, rather resembleth a ranke then a file; because in a ranke men stand fide to fide, as words doe being placed in a line. Terbecause the word is received by whe in

that other sence, wee must like wife admitte the same.

3 Adecury]

3 A decury This in Greeke Alian calleth Decania, award, which in this sence

4. An Enomotic The word cometh from omnymi to sweare, not of omos a

shoulder, as Robortellus, and Patricius immagine; of whom the first translateth it in la-

men, and is foe called, because they take their othe together, not to forsake

furely you shall not finde the word Enomotia applied to other souldiers, then the Lace-

demonians, or else to them, that the Lacedemonians commanded: untill it was after-

taine of theire militarie bodies. Albeit both the text bee corrupted in Pollux, having Eunomotia for Enomotia, & the interpreter hath worse trassated it, redring Enomo-

tia, militarie discipline, of Moira a duty. As the Lochos is great or little, so is the Eno-

motia. The Lacedemonian Enomotia was 32. men, the Lochos being 512. but the file of Alian being 16. and the Enomotie noe more, then the fourth part of a file the

Enomotie must containe noe more then foure men. One of every of these foure

must bee a commander; who is called Enomotarcha, or the commander of that Enomotie. So that in the whole file, consisting of 16. there ought to bee foure Enomotar-

chas. Where they should stand in the file, is a question. Patricius maketh the file-leader

* Xenop Cyrop I find in no other Author, then in him, and in Suidas - Xenophon calleth is Decas: " foe doeth b Vrbicius and Arrian, and likewife Hefychius. d Leo callethit decarchian

164.C. d Leo cap. 4 5 63.69.

Particips paralle, tine Intergutio, the other in Italian Spalaggione, as it were a backing, V pon this con-Pericus parant & part 2.156 c Suidas faith: Enomotia is a body militarie amongst the Lacedemonians of 32 f Erymol mag- the place affigned them in battaile. With whom agreeth the great Etymologicon:

But in Enometis and Hefychius likewife; who termeth it a body militarie, that taketh an other and social five areth but he facilified while the five and social five areth but he facilified while facilified whil sweareth by the sacrifice, which is offered at such time, as they goe into the field. And

h let pollex lib ward taken up by the Macedonians. And h Iulius Pollux exprelly noteth, that Moira, and Enomotia, are proper appellations of the Lacedemonians, given to cer-

the first Enomotarcha, the fift man, the second, the ninth man, the third, or the 13 man the fourth; excluding the bringer up, whom notwithstanding hee acknowledgeth to beethe second man of the file, and in dignitis next to the file-leader. I am of another opi-

nion: and yet allowe the places of the first, fift, and ninth, but thinke the bringer-up i Art.19.1842 ought to beethe last Enomotarcha: Arrian confirmeth my opinion: who writeth thus: Alexander returning to Babilon, found Prucestes newly come out of Persia, bringing with him 20000, Persians. Then commending the Persians for theire obedience in all things to Prucestes, and Prucestes for his care, and diligence, in ordering them, hee reparted them into bands according to the Macedonian manner. Over every file hee appointed a Macedonian file-leader to command, and next a Macedonian dimærite, and a Decastater, so cal-

led of the paye hee had, which was lesse then Dimærites, and more then the common fouldiers; then twelue Persians, and last of all the file a Macedonian, who also was a Decastater. So that in the whole file there were foure Macedonians, three, whose pay was more, then the common souldiers, and a file. leader the fourth, and more over 12. Persians. So Arrian. Out of which wordes wee may learne first the number of the Macedonian file, which consisted of 12. Perfians, and 4. Macedonians, in all 16. the number, that Alian requireth in he file. Next, that the Enomotarchs, or commanders of the foure parts of the file, were likewise 4. Lastly that the bringer-vp was one of the foure by expresse words of

Arrian, which is contrarie to the opinion of Patricius, and whereas Arrian termeth the third Enomotarch, Decastatoros of the pay, heereceived, it is to bee understood, that Stater was a piece of coine, of the weight of foure dragmes of Athens whereof the

Enomotarch

of Ælian.

Enomotarch had ten by the moneth. The dragme was of value leven pence sterling, and the Stater, conteyning foure dragmes, two shillings and four pence sterling; and ten of them were valued at twenty three shillings and foure pence. Which was the pay of the second Enomotarch, and of the bringer-up, as Arrian affirmeth.

And the Commaunder Dimærites 7 About the Dimerite Arrian, and A. lian, differ. Suidas leaveth the matter uncertaine, saieng the Dimerite is commander of the half-file, but pointeth not out, which is hee. Arrian distinguisheth the Dimerite from the bringer-vp, and giveth a greater pay to the Dimerite, then to the bringer-vp. The bringer-vp, he faith, was noe more then Decastateros, where as the Dimerite had a greater pay. But Elian twice in this chapter affirmeth, that the bringer-vp was the Dimerite, and addeth hee ought to bee the second man of worth in the file. And that the place of the reare is not much inferior to the front, a Cyrus tea- a Xenop Cyrus cheth his bringers-vp in Xenophon in these words; You have a place saith he no leffe 1828 82.0 honorable, then they, that stand in front. For being in the reare, and seeing & encouraging them, that behaue themselues valiantly, you make them more valiant, and the remisseand backward you incite, & spurre on, likewise to doe as well, as the rest. b Leo appointeth two Officers to a file, the file-leader, and the b Leo. sep. 4.5. bringer-vp, & so maketh the bringer-vp the second person of the file. The reare being then the second place of the file, I conceiue no reason , why , as the file-leader comman. deth the one half of the file, so the bringer-vp should not bee the Dimerite, and command the other; and I rather asent to Alian, that of purpose describeth the particulers of this arte, as hee findeth them fet downe in the auncient Tacticks, then to Arrian, that, writing the historie of the deeds of Alexander, stumbleth by chance upon these things not greatly incident to his narration. Yet may there bee a resonable construction of both their meanings, if wee consider the severall respects of the offices of these Enomotarchs. For the middlemost Enomotarch may bee termed the Dimerite in regard he standeth in the head of the second half-file, and in doubling the front and some other motions leadethit : the bringer-vp because he absolutly governethit, and seeth that directions,

given by higher officers, bee executed. 6 It behoveth that the file-leader bee more sufficient 7 The file-leader and bringers-vp ought to bee the most sufficient, because they have the whole governement of the file, the one in the front, the other in the reare. Therest are under them, and to bee called by the names of leaders, and followers. But yet is there a further disposition of the file, which, as I finde it in Leo, I will fett downe His words found thus: over the c Leo es 4.5.69 other fixteen you are to appoint a file-leader (as hee is termed) refolute, and fitt for fervice, and eight of these sixteen, that shall bee found fittest, you shall place in the front, and reare, of the file, foure in the front, namely in the first, second, third, and fourth place, other foure in the reare, in the sixteenth, fifteenth, foureteenth, and thirteenth place, that the front and reare may be firengthened with foure men a piece. The weaker are to bee placed in the midst of the file. This counsell, or rather precept, of Leo hath this reason. The front, and the reare, are the principall places the enemy commonly giveth upon. The front wee alwaies turne against the enemy, if we can. The reare the enemy seeketh to attache, and by it to difire fe vs , if hee can. The flanks for the most part are secured by the horse, and light armed. For Leo placeth the light armed, and horse in the flanks. Soe these two places, being most subject to the violence of the enemy, require extraordinarie care, and assurance. As for the weakest, which are in the midst, they never come to strike stroke, but after the front, and reare, are broken, d In another place hee Writeth to this effect : your Contubernies d Leo ca 45.14 (the souldiers that cabin together) you shall order according to five men, or to ten, or to foure,

The Tacticks

or to eight, or to fixteen, as you hall find most convenient, that being bound one to another with mutuall acquaintance, they may fight one for another in battaile and bee more valiant against the enemy. But you shall doe more wisely, if when you are to joyne, you place brothers by brothers, & friends by friends. For when hee, that fighteth, hath an entietly beloved frend standing next behind him, hee must of necessity hasard himself with more egernesse for his frends sake. And the other being ashamed not to requite one, that sustaines such danger in his behalfe, will hardly bee brought to forfake his friend fo well deferuing, and first betake himselfe to his feete. The same is the advise of Onosander, and was much practifed in auncient time. The Lochos Hieros, or Holy-band, of the Thebans (whereof I bake before) consisted all of friends, that had bound themselves one to another a Pourch nee in friendship. With this Holy-band a Pelopidas gaue the first disgracefull overthrow lepen.

Plurarchibib. to the Lacedamonians, that ever they had. Of this band Plutarch writeth, that it was never beaten untill the battaile of Charonea, when Philip the father of Alexander vanquisht the Athenian, and Theban forces both together. After which battaile Phil. lip furneying the dead bodies, and comming to the place, where these three hundred lay, all close mingled one with another, and strooken through with the Macedonian pikes, hee wondred greatly, and hearing that it was the band of louers, and beloued, wept, and said, evilly may they perish, that suspect any filthines in deede, or suffering, to have been practifed amongst such men. Cirus the elder had his Homotimos nourished up together, and Alexander his Hetairos; e Died Siculaib. whose extraordinarie service appeared in all theire battailes. Diodorus Siculus miteth of Seloolis the Agaptian King to this effect: at the birth of Seloolis his father did a magnificent and royall deed. For gathering together all the children of Ægipt, that were borne the same day, and setting over them some to nourish and governe them, hee gaue the same education, and institution, to them all, conceiving that they, that were brought vp together, & partakers of the same liberty, would become the best affected, and most assured fellow helpers in warre. This was the judgement of Myris, the father of Sesoos, King of Egipt, in providing asured asistance to his some for the conquering of the whole world, which by certeine blinde prophecies was promifed him. Now what little trust theire is to bee given to men, that are not acquainted one with another. Pompey that great Captaine of the Rod Cierad Arii mans sheweth in his epistle to Domitius: d For men, saith hee, are not quickly to be affembled hether by musters, and if wee had them, you are not ignorant how much they may bee relyed vpon, being vnacquainted to fight against ould Legions. Tet hath Leo another mixture in his files. For hee would have the ould, and new fouldiers put together in one file. Least faith hee, the ould being by themselues alone, proue weake, and of small force, and the yong disorderly, having litle experience. For the one, albeit ould, yet are well acquainted with fervice, the other albeit young, and valiant, yet are vnskilfull.

For the Enomoties, dimerie, and file, see the figure.

Ioyning of Files.

CHAP, VI.

I T Oyning of Files, is when one file is laved flank-wife to another, the Leader Lof the second file to the Leader of the first, and the follower of the second File-leader to the follower of the first, and so the rest. Every man that ranket b

2 Fires Cloyned

is called Parastates, as for example the Leader of the second file, to the Leader of the first, and so their enext followers, and the rest. As often then, as the second file, the third, the fourth, and so the rest are layd flank-wise to the first, it is named Ioyning of files.

Notes.

TOyning of files is] A file of it self will worke little effect against an enemy. For what can a man alone in front doe! Cyrus in Xenophon wisherh, that, a Xenop Cyrep. where as the Ægiptians stood a hundred in depth, they had beene in depth a thowsand, for we, fairth hee, wee should have the fewer hands to fight against. The ranke bringeth the muititude of hands to fight. And it is held, that the more hands are with conveniency brought to fight, the more is his advantage, that bringeth them. This is done by loyning fil's together, out of which loyning, ranks firing, and ranks the more they increase, and extend themselves in length, the more hands are ready to encounter the enemy. Now, as it was faid in the former chapter, that files confifted of leaders, and followers, from the first to the last, S is it in this chapter saide, that ranks consist of side men from one end of the length of the Phalange to the other: Fewe, or many men, placed side to side in a right line make a ranke; as in two, or three files iowned together. there are fixteen ranks of two, or three men in a ranke. And the two or three file-leaders make the first ranke, theire followers the next, and for the rest untill you come to the fixscenth. The like falleth out in more files. b Vrbicius faith that the file leaders make the b Eymol.magn. front (asthey terme it) of the Phalange, Which they call also the first ranke. And further, hee faith, they, that runne in an even line betwixt the two Wings, the right, and the left, are said to bee Parastatai, or sidemen. Likewise: the last ranke is called Oura, or the reare, and the commander Ouragos, the bringer-up. So Vrbicius agreeing with Alian. Now, out of these two chapters, is a cleare distinction of the names of souldters, that by reason of theire posture, or place, in battaile make the diversitie of files, and ranks. They, that make files are Protostatai, first standers, & Epistatai, after-standers; Which are by vs commonly called Leaders, and followers. For the fetwo faith Alian make the file from the biginning to the end. Parastatai side-standers, or, as weeterme them, sidemen, make the ranks. And if you measure the length of the Phalange, you doe it by number of men in the ranke, if the depth by number of men in the file.

Of a Phalange, the length, and depth thereof: of rankinge, and fitinge; the division of the Phalange into Winges: the place of the armed foote, of the light-armed, and of the Horfe.

CHAP. VII.

THE whole bodie of the multitude of files is termed a Phalange: whose length is the first ranke of file-leaders, and is named, the from, the face, the edge of the battaile, the ranke, the mouth, the Commaunders, the fore-standers, & the head of the files.

As much of the *Phalange*, as stretcheth backward from the *from* to the *reare*, as is named the depth. The bearing straight foorth of *fide-men* in length, when

ther they bee Leaders, or followers, is ranking. And the standing of Leaders and So farre Polyenus about the inventer of the Phalange. The number of the Phalange

followers directlic in a line in depth, is filing.

A Phalange is divided into two whole partes beginning at the middle feetion of the front, and houlding on cleane through to the vttermost parte of the depth; whereof the one half is called the 4 right ming, and head, the other half the left winge, and taile. 5 The two fold fection it felf, that divideth the length, hath the name of the Navell, and the Mouth. The Light-armed are placed after the Phalange of the Armed, and behind them the Horse. Yet if occasion require, both light-armed, and Horse are otherwise disposed, as after in this discourse will appeare.

Notes.

THE whole body of multitude of files is termed a Phalange] loyning of files makes ranks, and a sufficient number of files, and ranks together, make a bo. dy, which is called a Phalange. For that name is given to any entire body of an indifferent greatnesse, compasted, and united for fight. Hesselius deriveth the originall of theword Apo tou pelas allelois inai; from the standing of the souldiers in battaile neere one to another. Suids in the same sence, albeit hee differ a litle in words, faith, the Phalanges are so called apo tou pelasai anchi, of approching one necre to an other. The great Etymologican goeth yet a little further, and faith, that Phalanges are as it were Palanges para to pelas kai eggys einai, as it were Pelangys. These are the consectures about the original of the name. Which of them is truest, is not greatly to the purpose. It is enough to understand, in what sence the word Phalange is common. ly taken amongst Tactick writers, who, as I said, in a generall signification call any a Czarde bell. great body of armed gathered together, and united for fight, a Phalange. Soea Cafar nameth the battaile of the Heluctians, into which they cast themselves, when they fought b Xenoh de can against him, and likewise the battaile of Ariovistus, a Phalange. So speaketh & Xenophon of the Plasium, or fautre holow battaile, into which the Gracians, that went with Cyrus the younger into Persia, fashioned themselves at their returne out of Persia. And the e Xmoph his Same Nenophon Saish, the horse of the Gracians, when they were to encounter the Perd Amaria. sians, ordered themselues soure in depth, in sorme of a Phalange. And Arrian, that exemphibilitat the Persians at the River Granicus were ordered in a long Phalange, and exemphon azechos. seA gaine discoursing how iphicrates exercised his nanie, when hee expected to sight with the Lacedemonians, faith, hee sometimes lead in a wing (that is in a large depth) fometimes in forme of a Phalange, in a broad front. The first inventer of the Phalange is thought to bee Pan the generall of Bacchus his armie. Polyanus faith: Folestab.t.in F Pan was the commaunder of Bacchus his armie. This man was the first that invented the order of a battaile, called it a Phalange, and parted it into the Right, and left wing. For which cause Poets saine, that Pan carieth two hornes vpon his head, Besides hee was the first, that by slight, and cunning cast a searc vpon his enemics. For when Bacchus, incamping in a hollow forest, was advertised by his spies, that an infinite number of enemies were lodged one the further fide, hee began to be afraide. But not Pan: who cominanded the fame night the armic of Bacchus to give as great a shoute, as they could. The Rocks and hollownesse of the forest rendered it againe double to the enemy, & made showe of a greater armie, then Bacchus had. Where with the enemy falling into a feare fled foorthwith. In honeur of this firstegeme wee faine, that Eccho is Pans loue: & the causessenight-feares, which fall open Armyes, were attributed to Pan.

as you list, " Ansigonus the King of Macedony had his Phalange of ten thousand, a Povyb, Hb. 1. as you list, "Antigonus the King of Macedony had his Phalange of ten thousand. "The ten thousand Gracians be possible so that went with Cyrus into Persia are called a Phalange. What number the Helvetians, evidenthis, and Artovistus, had in theire Phalange, is not preciselie set downe by Cesar. The ten thousand Gracians be possible so and Artovistus, had in theire Phalange, is not preciselie set downe by Cesar. The tit is Cestin. So within the collection of t feemeth by Cafar, that the most parte of the fighting multitude of the Helvetians cast salliba. themselues into a Phalange; and those of Ariovistus likewise: But Elians Phalange is restreyned to a certeine number, as the next following Chapter will teache.

2 The length whereof] The length of the Phalange is to bee accounted by the ranke not by the file. The file is but fixteen men deep. Theranke from the point of one wing to the pointe of the other conteyneth attonfand, and twenty foure men in Elians Phalange. So that the files being short in comparison of the ranks, it is reason, that the length of the Phalange bee measured according to the ranke, not to the file. Suidas agreeth with Elian Sayeng, that the length of the Phalange is the first Syn- e Suidas in Mei tagma (the first ranke) of file-leaders, which is ordered in a right line, stretching from one wing to another, and is called the face, and the mouth, and the front, or the edge,

and the first-filing, and the first standers of the battaile. The next rowe, lyeng Pa. rallel to this, is called the second ranke, and the third, the third ranke, and soe the rest. The length is termed in Greeke Mecos, to which is opposed the depth, which is named Bathos. Neither is there in true account any other dimensions in a Phalange, besides the length, and the depth, which are in this chapter mentioned by Elian. Other

names are given in Greeke writers sometimes, but they signific either the one, or the

3 Is named the depth] Asthelengthrunneth along by front from one wing to another, so the depth beareth backward from the front to the reare. The depth is properly called Bathos, as I faid. f And Bathera Phalanx, is a deepe Phalange. [Died Siculage And & Arrian faith, Alexander ordered his Phalange es Bathos, in depth. And 571. h Polybius, that the Romans made theire battaile much shorter then before, but much h Polyb.lib.1.35 deeper, Bathyteran. And as it is called Bathos, for the most part, so is it by Leo A called also Pachos. For the depth of a file is by him termed depth, or Thicknes, Bathos sep. 14.5.08. etoi Pachos, in two severall chapters of his Tacticks; not in respect of the file it selfe, eaps 1 & 54. which is no more then along line, as it were, and carieth neither Thicknes nor breadth, +7. but in respect of the Phalange, the depth whereof is measured by the file. Indin the fourth, the twelfth, and fourtenth chapters hee termeth the depth of the Phalange it self (Thicknes) Pachos alone with out adding Bathos; shewing thereby, that Pachos also signifieth the dimension of the Phalange from the front to the reare. But where some are of opinion, that Platos, breadth, ought to bee read in those places in fiede of Pachos, Thicknes, they personade mee not to bee of their emind. & For Elian k after capso. himself giveth an Attenuation, or Thinning, (which hee calleth Lipty smos) to the Phalange: and that cannot bee understood, unlessetherewere in it a kind of Thicknes before. And to make it more plaine, hee faith, that this Leptylinos is, when the depth of the Phalange is gathered up and from fixteen men it becometh a lesse number. So that the Thicknes of the Phalange is the full fixteen, which is also the depth, and making of it Thinner is to lessen the depth. To a Place Platos is fittly attributed, a Place being onely superficies, which consiste the stongitude and latitude. So Polia-1 Polyen. lib.a. nus speaking of avalley, wherein an ambush was layde to entrap Alexander, saith, in Alexand. Sait the length stretched farre out, but the breadth, Platos, was narrowed to four fur m Poyle librar. longs. The name of Platos is likewise given to a place by " Polybius - But 10 say the coad.

truth Platos in a Phalange rather signifieth the length, then the depth, as appeareth a Leo ca. 7. 8.2: by Alian after in the foure and fourty chapter. And Leo calleth the front of the Phalange Platos, and when hee would have the front enlarged, or doubled, hee giveth this word of direction Platynon pròs tà amphotera mère, enlarge the front on both

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The right wing | That which in the Engl. sh toung is called a wing, is termed in Greeke Keras a horne. Wee in our warres of auncient time divided our armies into three parts, The vantgaide, the battaile, and the reale-warde : and, when wee came to fight, fet them for the most parte in an even front, the battaile in the middest, on the right hand, the vant-garde, which was called the right-wing, on the left the reare-warde which was called the left-wing. Properly enough for our embattailing. For the battaile is, as it were, the body, and the vant-garde, and rearc-warde, are the wings, which in a manner flicke out from the body, and whereby the body is supported: that, that wee call wings, the Gracians, and Romans called horns in the battaile. The word Keras signifieth a point bearing out from the beight, or ends, of any thing. It is veed for the toppe of Rocks, and for promontories, and such like: And in a Phalange it properly signifieth the two points (the right and the left) of the winges. The English worde wing I am faine to retaine, because it is familiar, and in vie. Alian heere will have the wings to stretche out from the middle fection to either point (the right and left) of the Phalange, under which appellation must fall to the right wing the whole space, that beginneth at the middle intervall, and runneth along to the corner of the battaile on the right hand, to the left, all that is comprehended betwixt the same space, and the left corner of the battaile.

5 Thetwo fould section] In Greeke it is named Dichotomia: because it parteth, and divideth the Phalange into two even parts, beginning at the front, and stretching out to the reare. And Alian in the tenth chapter of this book nameth it Apotome. But heere hee steaketh of no more intervalls, or partitions, of the Phab Onolander en lange, then of this one in the midft. I would thinke there should bee more. b Onolander faith: let there bee certaine intervalls in your battaile, that if your enemy advance, your light-armed after they have spent theire missive weapons, and before the Phalanges joyne, may retire leafurely in the intervalls, and without disorder come behinde to the reare. For it is not safe for them in retiring to fetch a compasse about the whole armie, or to turne in againe on the outlide of the winge. For the enemy, hasting to come to hands, would easily prevent, and intercept, them in the middest fo that they neither should bee able to breake through the armed, already closed for fight, and falling vpon theire owne weapons, they must needes disorder theire owne people, every man after other feeking to finde a way through them to escape the danger hee is in. Thus much Onosander; from whom wee may learne, both that theire ought to bee more sections in the Phalange, then one, and that the institution of them had this cheefe end, to receive the light armed in theire spaces, after they had skirmished with the enemy, and were by them forced to retire. I may adde, that Elian placing the lightarmed in the reare of the Phalange if you give but one fection untoit, it will be as hard for them, to advance, and frue, before the front, as it will bee to retreat after theire Loca, \$ 18 fervice done. It seemeth, that Leo give the three intervalls to the Phalange of the auncient Tacticks. Hee suith they opposed the bodies of the armed against the enemy, and divided them into foure parts, the right, and left, and the middle-right, and middle-left parte. Making so many parts, the parts must be distinguished (as I collect) by intervalls, which ought to be one

after the first body of the right-wing, another after the second, which is the middle fection, the third after the third. And this Third section is bounded with the fourth body, which maketh the point of the left-wing. For if the Phalange were whole, and entire, without more intervalls then one, how could there bee four parts? For esteeming them by Phalangarchies, without leaning spaces betweene, it could not bee faide, there were but foure parts of the Phalange, confidering, that as well the Merarchies, Chiliarchies, Pentecosiarchies, Syntagmataes, areparts of it, as the Phalangarchies. But being distinguished by partition of intervalls, the foure Phalangarchies become foure paris, namel, the right, left, middle-right and middle-left : as Leo heere termeth them. The fame a Leo freaketh after more a Looca 4.5.61 plainely, enjoyning his generall to seperate, and delicyne Diachorizein the whole number of his armic into foure parts. For , as Choris fignificih a part or fevered. lo Diachorizo . being derived from is , signifieth to put asunder, or sette a part. Saidas is yet a little more cleare. A Phalingarchie, faith he, is two Merarchies b suids in the of foure thowsand and ninty sixmen. This as some saye is the section . App. war. tome, of the wing, as other, it is a Meros. Of anneient time it was called Stra. tegia, and the commander Strateges, but nowe hee is termed Phalangarcha. Suidas maketh the wing to have apartition or section, and saith, some call a Phalangarchie by the name of this fection, Before wee heardout of Alian, that the wine (right or left) did fretche out from the middle fection to the outward mast point of the battaile on either side. And as the middle fection divideth the Phalange in two parts, which are called wings, fo this fection (spoken of by Suidas) being in the middest of the wing divided the wing into two parts. To call a Phalangarchie (which is a body consisting of foure thowsand and ninty six men) a section, is, I confese, an un. proper seach, but tolerable notwithstanding, considering that the whole source joide Phalange is composed of the source Phalangarchies, and that the section of the right-wing beginneth at the left hand file, or inward point of the right hand Phalangarchie, and enderh at the right hand file of the second Phalangarchie. And wee are not to expect the same exactnesse of speach from souldiers, that is common to men skillfull in the liber all sciences. Souldiers, that professe action have their end if they bee underflood of those, they commande. Articles are contemned, that clothe not the precepts of theire arts with elegant, fitt, and exact termes. Seeing then the beginning of the lection of the wing is at the flanke of the first Phalangarchic on either fide of the Phalange, wee may after a fort terme the Phalangarchie a fection of the wing, because it boundeth the section. At least by this place of Suidas weemay gather, that there was an intervall in either wing, which in reason ought to bee in the middlest of the wing, and to lye betwixt the two Phalangarchies. For so many there are in one wing. Polybius telleth of Philopamen , that , fighting against Atachanidas the Polybillaria Tyrant of Lacedemon, after hee had placed the light-armed, the Lanciers, and Illy. rians to untly in one front , bee added in the same right line the Phalange distinguished into bodies according to Merarchies and divided by severall distances. I translate Speiredon distinguished into bodyes , because Speira signifieth a militarie body 4 mongs the Grecians, and is by the Grecians, that wrote the Roman historie. rsed sometime for a Legion, and sometime for a Cohort. And it seemeth that Spiredon is heere by Polybim put in the same since that Eis Speiran is by a Plutarch : who mentioning the reformation touching affaires mi- a Plutin Philo litarie, which the same Philogemen brought in amongst the Achaians, wie pamen teth thus . their manner and forme of embattailing was not wsually parcelled out Eis Speiran , that is (as I interprete it) in severall bodies , but ving a

Phalange, which had neither protension of pikes, nor closing of targets in front (as the Macedonian manner is) they were easily foiled, and broken, by the enemy. The mea. ning of Plutarch is (as I conceive) that the Achaians in former times vsed to order sheire Phalange in a continued length without intervalls which Philopamen reformed and taught them to make divisions by intervalls; And the practife of Philopamen is the best interpreter of his owne counsell to the Achaians. This practise Polybius setteth downe to bee the division of his Phalange Kata tele speiredon en diastemasi into bodies distinguished by intervalls according to Merarchies. Polybius also to Cheme, what bodies they were, veeth the word Tele, which I translate Merarchies. delian before having my marant out of a Alian: who faith a Merarchie confifteth of two Chiliarchies, and conteineth two thow fand and fourty eight men, and a hundred and twenty foure files: and addeth, that it is of some called a Telos, and the leader a Telarch. man may doubt seeing Philopamen made an intervall betweet every Merarchie whether hee made seven divisions, or no: For in Alians Phalange there are eight Merarchies, betwixt every of which if a distance were, there must needs arise seven intervalls. To cleare this doubt wee must understand, that the Phalanges of the Gracians were not alwaies of the same number, as I noted before. Alians, and the Macedonian Phalange, consisted of sixteen thow (and and odde. Anticonus had but ten thow (and. Demetrius eleuen thowsand. Other had more, the Lacedamonians lesse, and likewise the Gracians for the most part. Andit seemeth, the Phalange of Philopamen was no more, then eight thow (and, and odde, in which number there are but foure Merarchies. As Alians Phalange comprehending sixteen thowsand and odde, wherein are foure Phalangarchies, hath likewise three divisions by Phalangarchies. And net in this Phalange of Philopamen, if you account the file to have but eight men (as the most Gracians vsed in theire files to have) these foure Merarchies will possess as much eround in front, as the Phalangarchies of Alians Phalange doe, the file being fixteen. Neither wit new to figure out the bodies greater, or leffe, according to b Leoup 48, the number of the Phalange. Leo commandeth his Generall, when the number will \$1.51.56.55. not reach to fixteen them and (the number of the phantim). not reach to fixteen thow fand (the number of the ould Phalange) to hould not with standine sixteen men in a file, and to divide his Phalange into source equall parts by intervalls, excepting some few, which hee would have reserved for other vies. To conclude Alian him self seemeth to acknowledge more sections, then one, when in the tenth Chapter of this booke hee speaketh of the middle section mese apotome. For this word middle being a relative, can not bee understood with out two other at least, which are placed on either side. And all the figures, that I have seene, of a fourefold Phalange allowe three sections, and no more, that is to saie, one in the middest, and the other two in the wings. What the distance and dimension of shese sections ought to bee , I finde not set downe. But , if I might have leave to consecture, I would thinke, they ought to bee large enough for a troupe of horse, framed wedge-wise, after the Macedonian manner, to passe through; the last ranke whereof being fifteen (as appearethin the twenty chapter of this booke) and the horse placed in the reare of the light-armed it is needfull, if upon any occasion they were to bee drawen through to serue in the front, the distance of the section Should bee sufficient to give them passage without disorder. And I am the rather confirmed in this opinion, because I see the intervalls betwixt the Roman maniples so proportioned, that the Principes might passe through those of the Hastati , and the Triarij through those of the Principes. But I proportioned out the intervalls to the horse, not to the light-armed, for that the light-armed way bee divided into severall bodies without inconvenience, but any breaking of the

horse-wedge breedeth a confusion in the whole troupes. Tet where a troupe of horse may find way, there may a Genturie, or Colours, of light-armed find also way.

6 The light-armed are placed after 7 The light-armed were diverly a Acian up at placed, sometimes before the front of the Phalange, which kind of placing is after. ward called Prataxis, sometimes on the wings, and it is called Hypotaxis, sometimes betweet the files of the armed fronting in a right line with them, and it was called Esttaxis . Sometimes in the reare after the Phalance ; which was called Epitaxis, All thefe are floken of by Alian heereafter in this booke. b There is another kinde b Adlances a of placing the light-armed, when they are throwne into the midft of the battaile. being hollowed for that , and other purpofes. Heereof stian likewife treateth in this booke heere after. And albeit the most vivall embattailling of them hash beene in the wings, yet the bestowing in the reare according to Alians minde hath also advantages. First it consealeth theire number, which because they are shaddowed with the pikes standing before, can hardly bee discerned. Then it is easte from the reare to drawe them to any place of fervice without diforder, bee it before, on the wings , or behinde the reare. Further , it will not bee easte for the enemies borfe to charge them, the armed standing before for a sure defence. Lastly, from the reare they shall bee able at all times to anoye the enemy, before the battail inynes; as soone as the battaile ionnes, and all the time of fight. Neither doth this manner of embattailing want examples of the ould hiltoric of the Gracians. The embattailing of Cyrus theelders armie, in Xenophon, bath the light-armed e Xenop Cyrop. in the reare. I will let downe the effect of Cyrus words at large because they con ud. 6 167.8. teine the ordering of an armieto fight according to the judgement of Xenophon. Cyrus then being to trye a battaile with Cræsus thus directs his Conimanders: vou, faith hee, Araspes take your place in the right wing, as you now doe, and you the other Myriarches, as you are acoustomed. For when the fight is once a foote, noe Chariot may change horses; and command the Taxiarches, and file-leaders, to order theire files every one divided in two parts Phalange-wife, that is each half fronting one with another in a right line. A file conteineth fourean twenty men. Then faide one of the Myriarches, doe you thinke Sir, that wee shall bee able, in this order, to encounter fo deep a Phalange, as the enemies: Cyrus answered, the Phalanges that are deeper, then may with their armes reach the enemy, are they fitt thinke you either to annoye the enemy, or profitte theire frindes? For my part I could wish those, that are ranged 100. in depth, to bee in depth a thowfand. For so should wee have the fewer to fight with all. The number, that I give for the depth of the Phalange, I doubt not, but will entirely ferue for vie, and maintaine a joynt fight in every part. The Darters I will place after the armed, and after the darters the Archers. For who will fett them in front that confesse themselves vnable to maintaine a sight hand to hand? Howe then will they hould theire grownde, if they bee fett before the armed but being in the reare, some with darts, other with arrows, sent over the heads of the armed, will greatly endammage the enemy. And it is cleere, that wherewithall foever an enemy is endamaged, with the same a mans owne fide is eased, and relieved. You therefore order your selues, as I have appointed. As for the captaines of the Targetiers I will hauethem, and theire files, fland likewise next the armed in the Reare, and after them the Archers. And you the chiefe Commaunder of the Reare enjoyne

enjoyne the other reare Commanders every man to have an eye to those ynder him, that they doe theire duties. And let them sharply threaten the negligent, and in case any man treasonably for sake his place, punish him with death. For it is the worke of Commanders both with word, and deed, to encourage those, they command, & to make the cowards more afraide of them. then of the enemy. This is your charge, but you Euphratas, that command over the Engines, see that the beasts, that drawe the Engines, and Turrets. followethe Phalange as neere, as may bee. And you Daouchus, that have the charge of the baggage, come with your manye next after the Turrets, and let your Serieants seuerely punish them, that hast to much before or come to flowly after. And you Carduchus, that rule the wagons, wherein the women are, order them next the baggage. For all these, comming in the reare, will both breede an opinion of multitude, and give vs meanes to lay an ambush, and will force the enemy, purposing to encompasse vs, to setche a larger compasse; which the larger it is, soe much the weaker must hee be. And you Artabasus, and Artagerias, each of you leade next after these, the 1000. soote vou commande a piece. And you Phranuchus, and Asiadatas, order the Chiharchies of horse you commande not with the Phalange, but set them by themselues apart behind the wagons; and when you have done it, repaire to vs with therest of the commanders. But you are to bee in a readinesse: as if you were first to fight. And you the commanders of the Camel-riders place your felues after the wagons, and doe what Artagersas shall bidde you. And you the Commanders of the Chariots, after lotts are cast, lethim, whose lotte it is, range himself, and his 1 00. Charriots, before the Phalange; the other two hundred, one of them is to follow, the Phalange on the right fide, wing-wife, the other on the left. So farre Cyrus. I haue rehear fed the words at large, principally to showe that the light-armed in ancient time were placed sometimes behinde the Phalange; and yet further also, to represent the manner of embattailing an armie, which was then v suall. For heere have you set downe the place of the Myriarches, & of the other commaunders, which was in front, then the place of the pikes, of the light-armed, of the reare commanders, of the Engines, of the baggage, of the wagons, wherein the women were, of the gards for the baggage, both horse, and foote, of the Camels, and of the Chariots. And albeit many of these particulers agree not with our manner at this day (for wee have neither Engines, nor Camels, nor Chariotts, nor flings, nor darts, nor arrowes) yet is the reason of warre alike in all, and in our placing also the fitnesse of service prina Tenop Crop cipally to bee respected. The place of the horse is heere omitted by a Xenophon, which may be supplied out of the seventh booke, where Chrysanthas Generall of the horse is saide to b xerod Crop stand on the right wing of she Phalange with half the horse, Hystaspas on the left with b. 7 170 2. she other half. But to returne to the alacing of the list. the other half. But to returne to the placing of the light-armed, the same Xenophon testifieth, that it was the Loyptian manner to order theire light-armed behinde, & that in the battaile betwixt Cyrus, and Crasus, the Agyptian archers, and darters, were with drawne fwords compelled by the reare-commanders to shoote, and east theire darts. e Recoops Hist. Thras bulus in his fight against the thirty Tyrants fet his armed in front, and in the erecti : 472D reare his targetiers, and darters, without armor, and those that cast stones. And it seed Kenoph hist. meth by the words of 'Thrasphulus to his owne side. that the Tyrants did the like; The Tyrants, saith hee, have brought vs to a place, in which by reason of the steepneffe they must ascend, and can neither cast stone, nor dart, over the heads of theire owne people, that are embattailed before. Where wee contrary wife, whether wee throwe jauelins, or darts, or stones, shall easily reache, & wound

many of them. The stones and darts of the light-armed were to size over the front of the bastaile, and that could not bee unlesse the light-armed were placed behinde: I will adde one example onely out of Plutarch to shew the service of the light-armed in the reare, a Plutarch discoursing of the battaile fought betwirt Sylla, and Archelaus, the Gene- a Plusius sylla rall of Mithridates, at Cheronaa, hath thus : Afterwards the foote forces came to iovne, the Barbarians holding out, and charging theire long pikes, and endevouring with locking theire targetts close together, to mainteine the order, and closenes of their Phalange: The Romans on the other side, casting away their darts, and drawing their swordes: putte by the enemies pikes in choler. to the end they might come quickly vp to them. For they espied, opposed against them in front 15000. of the enemies slaves, that were entranchised by Proc.amation of the Kinges generalls . & enrolled emongest the armed And when the Roman Armed coulde hardly breake them, by reason of theire depth, and fast knitting together; and of theire bouldnes in daring (contrary to the nature of slaues) to abide the danger of the encounter, the arrowes, and darts cast in aboundance from the Reare, made them shewe their backs, and fallin a route. Weefinde heere, that the light-armed from the reare effected that, which the Armed could not. Thefe flaves endured the shocke, and could not bee broken by the armed, and yet were defeated with Arrowes, and darts, from the Reare: Nowe for the distance that should bee betwixt the bodies of the light-armed, and betwixt them, and the reare of the armed, Alian faith nothing: I make noe doubt but there ought to bee as great (if not greater) as in the sections of the armed. For wee must understand, that the sections, that served to sever the Phalangarchies one from another, must runne through the light-armed in depth to the reare. And by them are the Epixenagies to bee devided a funder, as the Phalangarchies are: with Epixenagies answer the Phalangarchies for number of files, albeit not in number of men. Likewise there ought to bee, a greater face in ranke, and file, then the armed had For the hand. ling of missiue weapons, require more liberty of place, then the managing of a pike or (worde. A dart can not bee fent for ciblie without running two, or three, steppes in the delivery of it. A sling being throwne, and circled about the head, before the stone, or bullet, can bee forced out to any purpole, will not suffer a neere stander by. In bowes, and arrowes, is the like reason, if they be veed as they ought. Besides the light-armed in their fight are tied to noe certainty of order, or grounde, but fight differfedly : Soe that the more grounde they baue, the fitter they are for service. In which respect a large intervall croswife betwixt the armed, and them, should serve to purpose it having liberty for their motion forward, and backward, as occasion should require.

7 And behinde the Horse:] Lhaue not read in any greek historye, that the horse-men in a sett battell, haue beene ranged behinde the light-armed. The vsuall manner was to place them in the Wings Soe did Alexander before he passed the River Gra- D Leocap 4 5.6 nicus: soe d'at Isso, soe at Gangamela: Soe did Antigonus, against Eumenes, and Eu-F & 14D menes against Antigonus: Soe 5 Ptolomeus against Demetrius, and Demetrius against Pto-Curibo, 36?

lumeus: and in brief all the Macedonians, and the Gracians, before the Macedonians were e Arti II. 3.59. F accounted of for matter of armes: vnlesse some speciall cause moved an alteracion. And, 19,615,646 as I shewed out of Xenophon, before all their etimes. A Cyrus albeit, hee set the light Armed 19,716, in the reare, notwith standing hee beestowed the hor seinthe wings: Alexander having ib 7, 192 Coe passed the River Ister as long as hee marched in the corne lande, placed his horse behinde his 175.5. Phalange, when hee entred the Champeigne, hee setthem on the right wing : and D.E. lastly cast his Phalange into a Plasium : and ordered his horse before. In the Corneland, they followed (for feare of an Ambushe) In the Champian they marched on the

right wing, because on the left, the Phalange was secured by the River; before the Plas fium that being over-layde with the multitude of the enimye, they might have a fure re-Arrian 16.2. treate to the foote. The same Alexander, when hee was to fight the Battaile of Islos with 26.B Surius 15-3 4 Darius, as long as hee was in the streights, marshalled his horse after his foote. But in marchine forward, comming to open ground, when he might give full length to his Phalange, hee placed his horse on both the wings. But the reason of setting them behinde was in the strengthenes of the place : and hee being incerteine how neere the enemyelay, was losthe to put them to hafard, before they had liberty of grounde to order themselves, and might have asistance of the foote. For otherwise it was an ordinarie matter in marching (wit is the manner also at this day) to dispose the horse half behinde, and half before. Renood, hift. I will content my felf with one example. When b Agesilaus retourning out of Asia, paffed through Thessalie, the Thessallies of the Thebans, followed him, and sought to endammage his armie to theire vetermost. Hee had before disposed his march into a Plæsium, with the horse half in front, and half behinde, nowe when the Thessalians ceased not to molest him, by falling upon his reare, hee sent to the reare all the horse of the vantgarde, excepting those, that attended his person. Either party prepared them selues to fight. The Thessalians holding it not sure with Horse alone to incounter armed soote: Turning about their faces, began leasurely to retire, and the Lacedæmonians flowly to followe, Agesilaus, perceaving the errour of both, sent the best of his horse, that were about him, commanding them to signific to the rest, that they together should goe, and charge the Thessalians with all speede, and give noe respite to them, to turne their faces. The Thessulans contrary to their expectation being hottly charged, some fled, other some turned about towards the enimy, other some indevouring to turne, were surprised by theire enemies, that by that time were come up to theire flancke. Nowe for the reason of Elians placing the Horsein there are, I have no emore to say, then, that from thence they might bee soone drawen to all places, front, flanke, or where soever the enemy is like so distresse vs. For it hath beene the forecast, of all generals to fashion their battails according to the figure the enemy hath before chosen. Examples are so plentifull, Incede not alleage many. Onely I will remember one latine fory of placing horsein the reare. L. Lentulus, and L. Manlius Acidinus in Spaine being to fight with the Illergetes, and Ansetans, and other Spaniards, that had revolted from the Remans; in this very kinde of placing horsein there are imitated, and gotte the advantage of, and defeated theire ene-. Livy Ceeab ; miss. Livy hath the flory, and writes thus in effect : The next day at the rifing the say, of the sonne the Spaniardes being all armed, and set in order, shewed theire done by M. Va-battail, about a mile from the Roman campe. The Ansetans were in the mid-Emis hebidator egund the filler getes held the right winge, other obscure people of Spaine the slib. 10 242. Left: Betwixt the wings, and the middle parte, they left broade intervalls, to And by L Papyrish giue passage to theire horse: (when time should bee) to fend them through the samming. List to charge. The Romans Embattailed after theire wonted manner, Onely then so still imitated the enemy, in leaving open waies, for the horse betwixthe legions. And by sylla Lentulus imagining that partye, and none other, should have vse of theire horse, that first possessed these intervalls of the adverse battaile, commaunded Cornelius the Tribune to give direction to the horsemen, presently to charge through, the foote on both fides came to blowes, and the fight was hard, when the Roman horsemen passing through the Spaces, and falling vpon the middest of their enemies at once disordered the battaile of foote and shut op the wayes against the Spanish horse; by which meanes, after noc long

fight, the enemy was vtterly defeated. Where Livy faith the Romans embattailed after theire wonted manner, his meaning is they ordered them selues in Maniples, or Battalltons, as wee now terme them (for that was theire woont.) But when hee addeth, they imitated the enemy in leaving open waies for the horse, betwixt the legions. Wee must understand that a legion was thus embattailed: * First they di- 2 Livy doud. D vided theire legion in to thirty Maniples, ten of the Hastati : ten of the Principes, and ten of the Triarij. The ten maniples of the Haftati, they fet first in an even front, leaving soe much distance, or voide grounde betwixt every Maniple, as a Maniple is self tooke up in standing. At a reasonable space behinde, were the Principes placed in as many ma. niples: but soe that theire maniples stoode directly behinde the worde spaces of the Hastari. And against the bodies of the hastait, they left likewise spaces in the Principes to the end, the Haftati being overlaid, might retire within those spaces: or else themselves might advance against the enemy, through the intervalls of the Hastati. Lastly at a larger distance behinde the fe were the Triary fet, and divided with spaces between every maniple, which spaces were great enough to receaue the Principes, in case they retired also. Now the Horse being ordered in the reare after the Triary, if from thence, they had gon to charge the Enemies front, through the spaces of the Triary, they must of necessity, have fallen woon the Maniples of the Principes whoe were fet directly against the intervalls or spaces.

To give therefore free passage to theire horse, the Roman Generals removed the maniples of the Principes from theire ordinarie place, and bestowed them, in a right line, after the maniples of the Hastati, and made an open lane, (as it were) from the reare of theire battell to the front. So that nothing hindred the horse, but they might freely fly up to, and fall up. pon the enemies from. And yet I take not Alians meaning, to be , that the Horse set in thereare, should during the time of the fight still remaine there. For soe would not great fervice bee had of them. But hee placed them there the rather to avoyde confusion in ordering the foote. Ind that after theire embatteling, they might bee led from thence to any place, front, or flanke, or where soever they might yeeld most vse. For in the sifteenth and twentith chapter, he would have both light-armed, and hor fe foe placed, that they might answer all attempts of the enemy. And in his caution following, hee faith, if occasion require both horse and light-armed, may bee otherwise placed. That they were visual. ly placed in the Wings, I have before shewed. The examples declare they were placed in the reare Cometimes:

Of placing in the from there are also examples. The Lacedamonians at the battaile of b Xenoph. his. Leuctra against the Thebans placed theire hor fe be fore their Phalange, and tried their fortune With hem, and were beaten, before the foote iogned: The Perstans at the River Gra- e Ploutebia yl. wicus, esteeming theire Horse to bee theire chiefest strength, opposed them upon the bancks name to Alexand Ana against Alexander, that was to passe over, and embattailled their foote behinde the horse. And Alexander encountered them first with his Horse, before his foote could get over: One example more I will adde to shewe the reason, why Horse are sometimes placed before the front of the Phalange of foote. d Eumenes being to fight against Craterus and Neoptolemus, & Platareb in vin both greate generalls, that bad served under Alexander in all his warrs, ordered the fight to Bunesi Doul. thus: Because hee under-stood, that theire Army confisted of twenty thowfand foote, the most parte Macedonians renowmed for their evalour, and skill in fight (In whom they set theire greatest trust) and of more then two thowsand horse, and knewe his owne foote, albeit they were as many in number, yet all to bee ramasses of diverse kinds of people, and that his owne horse were five thow fand, with exceeded the enimy both in number, and valor, hee determined to hasard the battaile vpon his horse, before the two Phalanges of foote should come together: Advancing therefore with his horse sarre before

Of the number of the armed foote, of the light-armed, and of the Horfe.

CHAP. VIII.

TOw are wee to lay out, what number the armed-foote, the light-armed, and Now are weet of ay out, what frames the Horse ought to bee, and how particularly ordered, and how vpon occasion the Battaile may speedely be transformed into divers shapes, & formes, and what discipline vsed for the motion of the severall parts of it. Wee can. not with any probabilitie set downea precise number of forces to be levyed. For as much as every man is to proportion his levie according to the importance and qualitie of the warre in hand. This yet must not escape vs, that such anumber is to bee chosen, as will fitt the divers shapes, and transmutations of our Troopes. As if in case were were to double, or to multiply, and manifoldly enlarge the length of the Phalange, or els to leffen, and drawe it vp into 2 narrower roome. For this cause choice is made of a number, that may be teparted into half continually, till you come to one. Hence is it, that most Tatick writers would have a Phalange to confift of fixteen shouland, three hundred, eightie, and foure armed foote, and of half so many light-armed, and of half as many Horle, as light-armed. For 16384. may bee reparted continually into half, till vou come to one. Therefore for proofe, and Examples sake this numbers is admitted. And where wee have allotted fixteen men to every file, the whole masse will arise to one thousand, swenty, and soure files.

Notes.

THE Chapter before spake of the parts and dimension, of the Phalange, and of the place of the armed, the horse, and light armed. This treatesth of the number that goeth the Phalange. In choise of which number, Elian saith consideration is not see much to be had of multitude, as of titnes for service. For such a number as cannot aptly bee disposed of sortight, is rather meanes of confusion, then of order without which not sight can be maintegrad. Therefore such a number is to bee chosen as will serve.

I The diverse shapes, and transmutations of our Battaile] Fuery motion in the battaile makes not a Transmutation, or diversitie of shape. In turning of faces to the one hand or other there is not other shape of the Phalange, then was at first: As a man turning his face any way, the same proportion of lineaments remaines that was in him before. Soe likewise in countermarch or wheeling after the Countermarche; or wheeling is done, every souldier if he keep his right distance, and remaines in side and vainte; hathe the place hee had before: And soe noe transsignation of length or of dipth solloweth. The motion then, that Alian meanes to make Transmutation, are Doublinges: For Whether, you enlarge the length, or depth, of your Phalange; you straight induce another shape. A long fronted Phalange, and a Herse differ much in forme. If you will make of the ordinarie Phalange a herse, you are to double your files soe often, as your thinke convenient for the length of your herse. Then if from the Herse, your would return eit to the strift forme, you are not to cease doubling Ranks, till you have gained that forme: likewise if of your ordinarie Phalange, you would make a long fronted Phalange, your rankes are to be doubled, and by continuing your doublinge, you may drawe out what length you will. And

his foote, hee tooke the right wing himselfe, and gaue the left to two strangers, to Pharnabarus a Persian the sonne of Artabazus; and to Phenix a Tenedian: Craterus stood in the right wing of his owne horse, and placed Neoptolemus on the left. And feeing the enemies horse comming forward with greate fury charged them first, and fought brauely. But his horse failing under him, hee fell to grounde, and it being not knowne, whoe hee was by reason of the medly, and throng of those, that gaue backe, and fled, hee was trampled vnder foote, and ended his life after a strange manner. By his death the enemy tooke courage, and encompassing their adversaries on all fides, made a great flaughter, and the right wing, after this manner, with might overpressed, and put to the worst, was faine to fly for succour to the Phalange of foote. In the left winge Neoptolemus stoode directly against Eumenes, and the mutuall fight of eche bredde a greate emulation betwixt the generalls, and a fervent defire to come to hands. And being eafely knownes both by theire horse, and other marks, they flewe one vpon another; and out of theire single fight made away to a consequent victorie. And first they asfailed one another with swords, and after fell into an vnlooked for, and wonderfull Monomachy, for being transported with anger, and mutual hatred, quitting the raines of theire bridles, with theire left hands they eache feazed and tooke hold vpon the body of other, which hapening, and the horse continuing theire careare, and springing from under them, they both fell to the grounde, neither of them could wel arise by reason of the suddaine, & violent fall, and of the heavines of their earmor. Yet Eumenes got vp first, and prevented Neoptolemus, stricking him on the ham. The wounde was wide, and his strength of footing thereby failed, & soe lay as one, that had no evse of his legge, being not able to raise himself because of the hurt: notwithstanding, courage overcoming the weaknes of his body, hee lift vp himselfe vpon his knees, and hurt his adversarie in the arme, and thighes, giving him three wounds. But none of the wounds were mortall, and they being yet warme, Eumenes with a second blowe hitting his necke, slewe Neoptolemus outright. Whilest these things were a doing the rest of the horse fell together. Many were slaine on either side : some therefore falling, other being wounded, at the first the daunger was equall. Afterward, when the death of Neoptolemus was openly knowne, and that the other wing was put to flight, cuery one shifted for himselse, & made towards the Phalange of foote, as to a strong wall of desence to saue himselse. This was the issue of the battaile. Wherein Eumenes, placing his horse before his foote, because hee held them his strength, and with the trieng the hazard of the day, shewed him self, both in councell, and action, a greate genevall. And Craterus on the contrary side, albeit highly esteemed emongest the Macedonians, so one, that had with great sufficiency served Alexander in all his warres, get failed En judgment, in that hee chose rather with his horse to encounter the stronger parte of his enimies forces, then with his Macedonian Pholange (which Eumenes himself feared) to trie his fortune. For as it is a pointe of forecast to knowe amans owne advantage, and vse it . Soest is noe lese sudgement, to knowe wherein the enimye is stronger, and avoyde ys. Eumenes did both; for hee wfed his owne horse, which were hu strength, and brought to pa Te, that Craterus his Phalange did him noe good, in as much as they never came to fight. Craterus failed in both, in that hee neither brought his Phalange to fight, nor get provided sufficientlie to encounter Eumenes horse; which exceeded his in valour, and number, so appeares both, that horse were placed before the front of the soote; and also the forie gives the reason, why they were placed there.

centrarywise, by due doubling your files againe, you come to the first forme : How much you double your Ranks, See much you take away from the depth of your Phalange; as on the other fide, doubling of your files, diminisheth the length. For the purpose, your Phalange is fixteen deep, double your Ranks; the depth hash but eight men; double it once more, and it hath but foure. Soe is the Phalange confifting of foure ranks, & every ranke. hath fourethouland, and ninty fix men in it : But the length is foure times as much as it was. In like manner doubling your files (which in Alians Phalange are a thou-(and, and twenty foure) the first doubling loseth fine hundred, and twelve files and lose many remayne; the second seven hundred, and sixty eight, and two hundred fifty fix remaine : and soe many men have you in a ranke. But where the Phalange was but fix. teen deepe, nowe in the second doubling it is become fixty foure deep: If you please to reduce it to the first forme, two doublings of ranks will suffice. Heere wee must understand that doubling ranks, is not to make twice foe many as they were before, but to give twice so many men to every ranke, as they had before by inscringe the even ranks into the odde; as the second into the first, and the fourth into the third, and the sixt into the finish, and the eight into the feventh, Go. The vie of doubling I will heme in my notes woon the twenty nine chapter of this booke. Alian therefore would have his Phalange, of Such a number as may bee reparted continually into halfe, till you come to one: which number hee faith to bee fixteen thou fand three hundred, and eighty foure. And As arisethout of the Multiplication of one by two soe still doubling the product, till you have made vo the full number, of fixteen thou fand, three hundred, and eighty foure. And as the Multiplication by two begetts this number, for it being divided by two continually, it may beereduced at last to one: which is the thing, that Alian aymes at. For the num. bers, that have not equall division by half leave some supernumerary men in the Phalange: (which) in doubling will desorder both files, and Ranks: Every man acquainted with the lowe countrie militarie exercise at this day, knoweth, that when there is an uneven number of files, the odde file supernumerary brings a difference, and cannot bee doubled in the fore as the rest are: Asin fine, seven, nine, elenen, severall bodies of files. Two, six, eight, sen, may well bee doubled, and become swo, three, foure, fine files a piece : but the fifth, feventh, ninth, eleventh, must bee severed from the rest of the doubled files; and serve to noe purpose, being not matcheable in depth with the rest after theire doubling. The same reason is of ranks: Now when Altan saith, that this number in a Phalange may bee devided by half and reduced as last to one, wee must with all understand, that the file of the Phalange in such division, ought to be either of eight, or sixteen men a piece. For noe number under eight, except foure, or two (which fitte not the depth, of a Phalange) nor betwist eight, and sixteen, is divisible by half, till you come to one. Noe nor aboue sixteen except is bee produced out of the duplications of sixteen. A file of 12 comes nearest. And of that mamber was the file of Cyrus in Xenophon. Such a file notwithstanding by dtuisson of two flaies at three, and can descend noe lower. Ten was the old file of the Grecians, and it was a Icop Grop, called a Decas. And albeit after ward von better consideracion they enlarged the number of the file to twelue, yet they reteined the name of Decas still. But ten receiveth but one divifion, and goeth downe ward noe further then five. The vneven numbers under fixteen cannot bee divided at all. Vnles by fraction. As thirteen, which if you will devide by halfe, the quotient will bee fix, and there remainesh an odde man over : of which number, if all she files of the Phalange should bee, you should have a thousand, two hundred, and fixty, which will receive noe more, then two doublings without a fraction. If then the files be aboue fixteen, and under thirty two, you cannot divide them continually by half, but you must faile of the manner, that Elian Speaks of. As for the number of fixteen thous ind. sbree hundred, and eight y foure, albeit of it felf it is dini fible by t to till you com. or difeend

to 1, yet we must not consider it apart, as an abstract by it selfe, but as it numbreth, and is sophed to the Phalange. In which respect, it gineth a 1024 files of 16 deepe, which files will fill hold out the doubling, till you come to one file.

3 A Phalange to confift of 16384.] Alian (out of the most Tactick writers as be professeth) will have the Phalange of sixteene thousand, three hundred, eighty and fouremen. I have noted before that a Phalange may be more, or leffe, than this number. But Itake this to be the number of the Macedonian Phalange. * Appian Seemes to testifie a Appian in with me. thus he faith: Antiochus whole army conlifted of 70000 men. Of Syracistor. B. which the chiefest strength was the Phalange of Macedonians, conteining 1 6000 men, ordered according to the forme, that Philip and Alexander had before vied. He placed them in the middle, dividing the 16000, into 10 equall parts, in every of which parts was 50 men in front, and 32 in depth, and vpon the flanks of every part 22. the shew of the Phalange was like a wall, of the Elephants like turretts: hitherto Appian. I have translated He Phalanx, He Macedonon according to the word, the Phalange of the Macedonians, where the right meaning is, the Macedonian Phalinge. For it confisted not of Macedonians, but was armed, and ordered, after the Macecon'an manner. For how was it possible for Antiochus to wage, and haue in his seruice 16000 Macedonians, being neuer himselfe King of Macedonia, and the King, that then nus (numely Philip the sonne of Demetrius) was his enemy, and in league with the Romans? Besides Appian hash in expresse words: the Phalange was armed, and ordered, according to the inftitution of Philip and Alexander: whose manner Antiochus mought well reteine, considering he was lineally descended from Seleucus, the successor of Alexander in the kingdome of Astria: And Seleucus had beene in the service of Alexander in the whole conquest of Persia. Liuy saith also, they were armed after b Liv. Decad. the Macedonian manner. Whereby a man may inferre, they were no Macedonians: Hee 4 lib.7.141. A. speaking of the same battaile (which was the battell of Antiochus against L. Scipio) hath shus: The Kings army was mingled of fundry nations, and divers with diffimilitude of armes and aides. There were 16000 foote armed after the manner of the Macedonians. They were called Phalangites. This was the middle of the battell, and in front divided into 10 parts, which parts were distinguished by placing 2. Elephants in each intervall. The battell had 32 rancks in depth. It was the principall strength of the Kings forces, and both with the other shew, and also with the Elephants, which were eminent amongst the Armed only, brought with it great terror. Liny faith the 16000 were armed after the Macedonian manner, and were called Phalangites; Appian, that there were 16000 ordered and distributed according to the ordinance of Philip and Alexander. Livy, and Appian, both agree, that there was 10 parts, and every part severed with intervalls, and had 32 men in depth, which is the Macedonian file once doubled. Livy speaketh not of the number of the length of the Phalanoe. Appian Saith plainely there were 50 in front, of every of the 10 parts, which amounts to 500: for 10 times 50 makes 500. Now if you multiply the length of the Phalange which is 500 by the depth, which is 32, you have the 16000, whereof Liuy and Appian fake. But yet refleth a doubt, in the difference bet wixt both these authors, and Elian. Livy, and Appian, both giuing but 16000: Elian 16384 to the Macedonian Phalange. For Livy, we are not much to infift upon him, who being a Roman (we may probably coniecture) was halfe a franger, in the Art Tacticke of the Gracians, and that, which he wrote, he had from others; perhaps no better skilled in the Same Artthan himselfe. Appian was a Grecian (for so those of Alexandria in Egipt accounted themselves, after Ptolomy the first had established that Crowne in his family) and as his historic shewesh, well acquainted with the order the Gracians held in embatte-

ling their armies, and therefore we may the better rely upon his authoritie. Who albeit hee first affirmed the Phalange was of the number of 16000, yet after in numbring the depin and length alone, he findeth 16000: and further expounding his owne meaning he sheweth, there were more wpon the flanks of the ten parts, into which the Phalange was duided. His words import: That Antiochus divided his Phalange into Ioequall parts, giving every part in front 50 men, in depth 32; which being multipliea together, make op the 6000. He addeth; And in the flanke of every part he let 22. If the meaning be, he (et 22 upon each flanke of enery part, the parts being 10, and the flanks 20, the number will arise to 440, where Elian alloweth no more than 384. But if 22

b Xenoph.

128. B.

rethboth the ir trimes together, telling that either party had their light armed toyned to

were added to one of the flanks of each division, which also being collectively taken are flanks in the plurall number, we hall come short and finde no more than 220. Tet whether fense of both you admit, it is plaine, that Appian attributeth more, than 16 thousand, to that Macedonian Phalange. And it may be, there is an error in the number of the 22, and that it ought to be written 22. For if Antiochus had given 32, as he gave 22, to one flanke of every part, and fet 32 upon the uttermost flanks of every winge to strengthen them, of the 12 times 32 had arisen the just number of Elians Phalange; which number is the fittest, for vie, and for division of the Phalange in all doublings. The armed foote then, according to Elian, ought to be, 16284. The light armed. 4 Halte so many \ The armed among st the Gracians, were accounted the strength of the field, which was the cause their number was greatest. For you ball not finde in their battailes for the most part, that the light armed amounted to halfe the number of the armed: The fait of Cyrus sheweth what account be made of light armed: 2 Xeno-The armed: The fact of Cytas powers what account to be a super the armed: The fact of Cytas powers what account to be a super the super delight in Armes, horse, and chariots, and willingly doe, what they were commanded, he gaue armes to, of those whom he saw followed him against their wils, he gaue the horses to the Persians, that were his first companions in Armes. All that followed him vnarmed, he exercised to the sling, because he reckoned that weapon most seruile of all others. How much you increase the number of the light armed, so much you diminish the number of the armed, and by consequent somuch weaken your field. b For the light cannot maintaine any stable fight, but in case of danger they are forced either to shew a faire paire of heeles, or else retire to the armed for succor: Tet ferue they for many vees ioned with the armed. And the proportio that Elian fetteth downe, namely to have halfe as many of them, as there are armed, standeth to good reason, & vle. The Romans notwithstanding, were more sparing in their light armed, & allowed not about the sa part of them, or litle more, to the armed. The Legion conteined (faith croin in 6 Polishius) 4200 tootmen. Of these they chose 600 Triarians, 1200 bestati,1200 Principes, (which come to 2000) and the rest Velites, which were 1200. And the Velites were the same in effect amongst the Romans, that the light armed amongst the Græcians, albeit their arming somewhat differed. Elian before shewed, that the Græcian light armed had no manner of defensive armour, but offensive only, as bowes, darts, d politiches or fiones. 4 Polybius describeth the Armes of the Velites to be a Sword, a Parma, (which is a small Target,) and daris; the sword a spanish sword, the Target a litle round Target, a foote and a halfe (for lo Casaubon correcteth Tripedon) in breadth; the darts in the steale 3 footelong, and a finger thicke, and the head al-Livy Decad. most 2 foote long. And Livy mentioning the skirmsshes, that fell out between the Albang 116 horfemen of King Philip of Macedonia, and Sulpitiusthe Roman Conful, compa-

their horse, and that comming to fight, the Romans had the better. So (saith he) nei-

ther the Kings horse, vnaccustomed to a stedfast fight, were able to match the

Roman

Roman horse, nor yet the foote skipping and leaping here and there, and almost halfe naked in their kinde of Armes, to be compared to the Roman Veles, having a Target, and a sword, and being armed sufficiently both to defend himselfe, and assaile his enemy. The number then of Elians light armed, ought to be 8192, and whefe being ranged behinde the armed 8 despe (so they are sittlest for service) will make

5 Halte as many horse, as &c.] The horse are in number 4096, and proportioned to the foote (comprehencing the light-armed) as 1.00 G. The armed foot, and light armed together make 24576: the horse 4096. And this was a Alexanders proportion, a Diodor. Siwhen he moved first against Darius. For he had about 3000 foote, and 5000 horse, cullib 17.571. or not many more, as Diodorus faith. b Iustin gives him 32000 foote, 4500 horfe b Iustin lib. 11. Let this number held not alwaies amonest the Macedonians themselues; Imeane Alex-639. anders Captaines, that possessed his k ngdomes after his death. Thereason may be, that in Civill warres they made their levies, not as they would, but as they could. c In the bat- c Diod. Sicul. saile betwint Eumenes, and Craterus, (I fake of that battell before) Craterus had ib. 18.644. 20000 foote, & 2000 horse; Eumenes had 20000 foote, & 5000 horse. Craterus the proportion of 1.10 10; Eumenes of 1 to 4. d Antigonus fighting against Eu-d Diod. Sicul. menes in Cappadocia, had in his Army abone 10000 forte, and 2000 horse; Eume- 16.16.649. nes had as before. Antigonus horse were to the foote, as 1.10 5. " The same Antigo- c Diod Sicel. nus fighting against Alceras, the brother of Perdiccas, had in his Army 40000 foote, lib.18.651. and more than 7000 horse; the proportion well nigh of 1. to 6; Alcetas had no more than 16000 foote, and 900 horse, failing much of Elians number. f Antigonus in & Diod. Sicul his second battell against Eumenes, had 28000 footmen, and 800 horse, which is 1. to lib. 19.605. 3. and halfe; Eumenes had 3 5000 foote, and 6000 horfe, very neare Elians propertion. Many other examples are to be read in Diodorus. But (as I said) these are Ramasses proceeding not of choise, but of necessitie, which forced them to take such, as came to hand; as it alwaies falleth out in soddaine leuies. And it seemeth the number of horse (allowed to the foote by Elian) was King Philips proportion; considering Alexander vfed it & after be received his armse from Philip, who by prameditation, and fore-choice, g Diod Sicul. had gathered it together with intent to invade Persia. And yet I finde h that Phillip hb. 26.510. hirselfe, when he fought against the Athenians and Beotians at Cheronea, had more h Diod. Sicul. shan 30000 joote, and 2000 horse; which is 1. to 15: and in divers other fights differed from Mian in the number both of horfe, and foote. But the question is not, what was done, but was best to be done. And the number that Elian speaketh of, suites his Phalange best. For Philips device being to cast the horse into wedges of 64 horse a peece, and into 64 troupes; the greatest ranke of ech wedge being 15, will in the reare equall the front of the armed, and of the light armed; not in number of files (for the files of the footewere 1024. and the greatestranke of the horse, no more than 960) but in quantitie of place giving to the horle, standing in their order of 6 foote betwixt man e man, the 128 cubits of surplusage toward the difference of the horses bodies, and toward the Small spaces that are to be left, betwixt Troope, and Troope. The Romans ; Polyblib.6. allowed a farre lefferate of horse to the foote. In a Legion, according to Polybius his 472.C. account, there were of Citizens 4200 foote, and 300 horfe; of allies, and confederates 4200 foote, and 600 horfe. In a Confalar Army were 2 Legious of Citizens, and 2 of Allies, which came to 16800, a number not much differing from Elians Phalange of foote. Of horse 600, Albes 1200; in all making 1800; which a mmeth much short of 4096, (the number Elian alloweth to kis Phalange) and holdeth proportion of about 1. to 9. The reason of this difference, may appeare in the fact of & Eumenes; who not & Diod Sicul. much trusting his forces of foote against the Macedonians (accounted the best Souldiers 1.6.18.647.

The Tacticks

of thit age.) prepared himselfe a sufficient number of Horse with them to make a counterballance against the Macedonian foote. Indit hath beene the manner of Generalis of ancient time, if they trusted their Foote-sorces, to make the lesse account of Horse: if they distrusted them; to encrease the number of their horse.

assirusted them sto encrease the number of their foote, required the lesser number of horse. The Grecians had the greater number of horse, both for the cause he fore recited, and further because they had continuall warre with Barbatians, that placed their considence in horse; is the Persians, and the inhabitants of the lesser Asia.

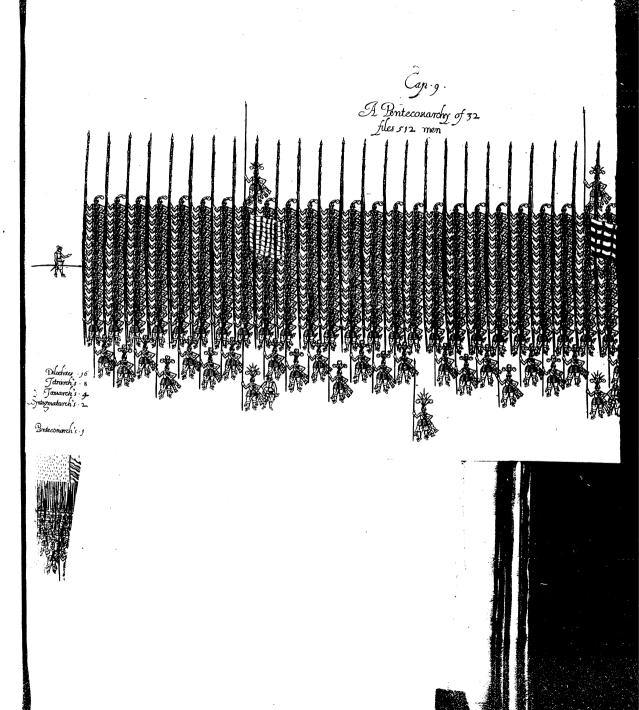
The names of the seuerall parts, and of the Commanders of the seuerall parts of the Phalange, and of the numbers under their commaunds.

CHAR. IX.

He files are ordered into bodies, which have every one a proper name. For two files they call a Dilochie of thirtie two men, whose Leader is tearmed Lilochita. Foure files - a Tetrarchy, and the Leader thereof Tetrarchs having charge ouer 64. men. Two Tetrarchies 3 a Taxis of 128. men, and 8. files, and the Leader thereof hath the name of Taxiarcha. Two Taxies goe to 4 a Syntagma of :6. files, and 256, men; and the Leader thereof is called Syntagmatarcha. A Syntagma of 256, men is called of some a Xenagy, and the Commaunder Xenagos. In enery Syntagma of 256. are fiue superordinary men , viz: 6 An Ensigne, 7 a Reare commaunder, 8 a Trompetter, 9 a Sergeant, and a 10 Crier. This Syntagma seemeth to have 11 2 Tetragonall forme of 16. men inlength, and 16. indepth. Two Syntagmaes make 12 a Pentecosiarchy of 512. men, and 32. siles, the Leader whereof isnamed Pentecosiarcha. Two Pentecosiarchies make 13 a Chiliarchy of 1024. men, and 64 files: and the Leader is called Chiliarcha. Two Chiliarchies are called 14 a Merarchy 0(2048. men, and 128. files, whose Leader is named Merarcha. Of some this part is called a Telos, and the Leader thereof Telarcha. Two Telarchies make 15 a Phalangarehy of 4096.men, and 256.files, the Commander whereof is called Phalangarcha. Yet some call it a Strategy, and the Commander Strategos. Two Phalangarchies 16 a Diphalangarchy of 8192. men, and 512. files. There are that tearme this part 17 Meres and it is one of the wings. Two Diphalangarchies make a fourfold Phalange confifting of 1024. files, and 16384. men. So have you in the whole Phalinge of armed footetwo wings, foure Phalangarchies, eight Merarchies, fixteen Chiliarchies, thirty two Pentecofiarchies, fixtie foure Syntagmatarchies, one hundred twentie eight Taxiarchies, two bundred fiftie fix Tetrarchies, fine hundred twelve Dilochies, one thou and twenty foure files.

Notes.

Etherto have beeneshewed, the manner of arming, and leaving of Souldiers, filing, and the patts of files, ioyning of files, and ranking, the locall forme, and parts of a Phalange, the number of the armed, light-armed, and horse-men requisite to a Phalange. This Chapter containes, as it were, the matter, of which a Phalange is compounded; that is the severall bodies Militarie, ordred, and toyned together, to make up the perfect forme of it. These bodies are many, and arise out of ioyning files by doubling



The Tatticks

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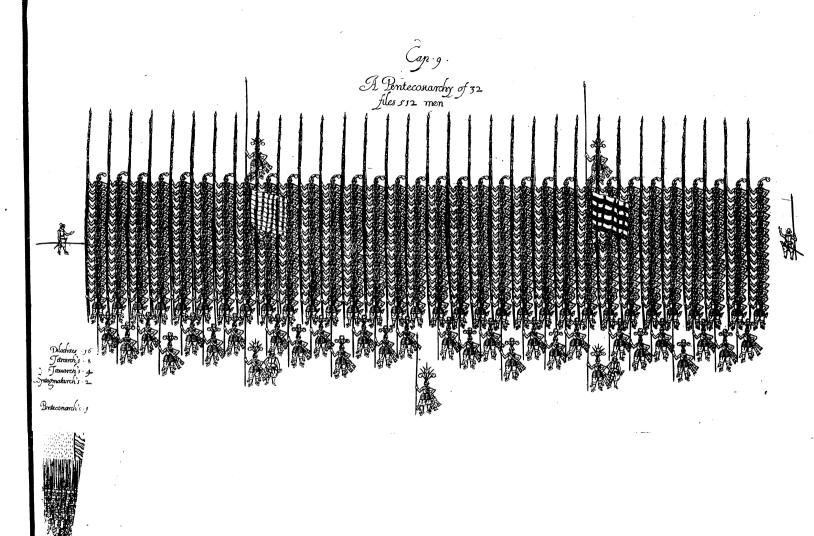
he seuerall parts, and of the Commanders of the seuerall parts of halange, and of the numbers wnder their sommaunds.

CHAR. IX.

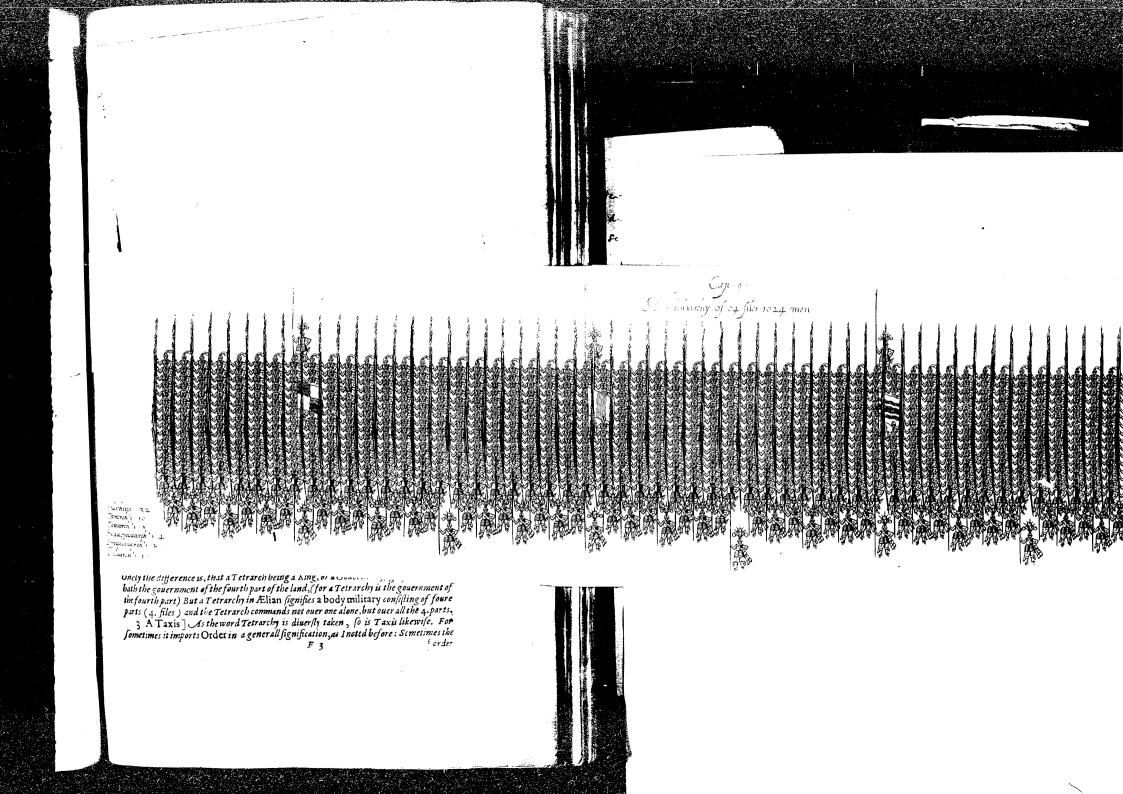
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Notes.

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Caji • 9 • A Phalangardry of 256 files 4.096 mem



A Jetarchy of 4 files 64 men A. Taxis of 8 files. 128 men ly knowne for Kings. The slaly likewife was divided into 4. Principalities, The slali-c Luc. otis, Phototis, Pelasgiotis, and Affiotis; where of every one was named a Tetrarchy. Onely the difference is, that a Tetrarch being a King, or a Governour, signifies him, that bath the government of the fourth part of the land, (for a Tetrarchy is the government of the fourth part) But a Tetrarchy in Elian signifies a body military confising of foure puts (4, siles) and the Tetrarch commands not over one alone, but over all the 4 parts.

3 A Taxis] As the word Tetrarchy is diversly taken, so is Taxis likewise. For sometimes it imports Order in a generall signification, as I noted before: Semetimes the Et 3

fill their number, and have every one a feverall Commander. The least is two files toyned together, which is called a Dilochy; Anabecause there are in Phalange 1024. files, there must also bee \$12. Dilochies, which consist of two files a peace. If you double this body of two files, and make thereof a body of four files, it hath an other name, and is called a Tetrarchy, of which Tetrarchyes there are 256 in a Phalange. Double againe thefe 4. files; and make 8, the body is called Taxis. And these eight files , being doubled bring out the Syntagma of 16. files ; which is a square number of men, 16. in the front, and 16. in the flancke. And so proceeding still in 6. doublings more, you come at last to the fourefold Phalange containing the number of 16284. men, and 1024. files. Now as in the Phalange there are 10. bodies out of these doublings, the Dilochy being the first, and the fourefold Phalange the last: So doth Elian, appoint for every body a Commander, who albeit they severally command, each his owne troupe, yet are they subordinately one under an other, the leffer under the greater till at last the source ainty of the command rest in the Generall of the Army. 2 The Dilochites are directed by the Tetrarches, the Tetrarches by the 2 Kenoph. Taxiarches, the Taxiarches by the Syntagmatarchs, the Syntagmatarches by the Pentecofi- Cyroped. lib. arches, and they by the Chiliarchs, ouer whom are Merarches, and ouer the Merarches the Phalangarchs, and over them the Commanders of the winges, or Diphalangarches, and the sourraigne of the Armie or Generall is the highest, and last. The number of these Commanders a man would think were to no great purpose being in all (the 2. Diphalangarchies therein comprized) 1022, besides the file Leaders, which standing in the heades of their files, amount but to two men more; that is to 1024. For so many (as I have said) are the files of the Phalange. But if the conveniency be observed, it will not seeme impertinent. b For all the Leaders being in front, (therefore are they called Leaders, because they pre- b Xenoph. cede, and therest follow,) it makes both a gallant shew, and that rancke being as it were, Cyrop. lib. 3. the edge of our battaile, not only serves to hew a sunder, and rent a pieces the forces of our 85. C. enemie; But also standeth as an assured bulwarke of defence before the rest of the Armie, that followeth. And it is well noted by Leo, that the multitude of Commanders c Leo cap. 4. (in orderly dinisions) both fignifies, that there are many worthy and valiant men § 13. in the armie: And is a meanes to keep the Souldiers in greater obedience, and to gine vindonbred effect to all directions. Of what qualitie and disposition, those Leaders ought to be, you may (ee in the * fourth Chapter of Leos Tactickes. Onely I will * Leo cap. 4. adde, that as they are higher in dignity, so ought they in vertue and valour exceede those, that are under their command.

I A Dilochy] Consists of two files ; for so signifies the word Dilochia : and the Lea - Dilochia. der is called a Dilochite.

2 A Tetrarchy of foure files; and the Leader is called a Tetrach, one that hath the command of four files. And here I must once more admonish, that in the words of divers finification, we must not weigh, what is the proper signification, but how they are weed in this Art, and booke.

For the word Tetrarch lignifieth Cometimes a King : as Helychius hath : and d Deio- d Ciceso in tarus in Tully is called a Tetrarch, and e Herode in the Gospell; who both are common-orat. pro ly knowne for Kings. Thessaly likewise was divided into 4. Principalities, Thessali- Deitaro. otis, Pthiotis, Pelasgiotis, and Aftiotis; whereof every one was named a Tetrarchy. Onely the difference is, that a Tetrarch being a King, or a Gouernour, signifies him, that bath the government of the fourth part of the land, (for a Tetrarchy is the government of the fourth part) But a Tetrarchy in Elian signifies a body military consisting of foure parts (4. files) and the Tetrarch commands not over one alone, but over all the 4. parts.

3 A Taxis | As the word Tetrarchy is diversly taken, so is Taxis likewise. For sometimes it imports Order in a generall signification, as I noted before: Sometimes the

erord.ib.4. rop lib. &. 202. C. h Polybilibira 666 B. : Xenoph.Cy-41 D. k Polyandib.

f Folyb lib. 2. forder of a battaile: S sometimes a company of any kinde of Souldiers, foote, or horse: 225. B. & hb. as Taxis Peltastarum, Taxis Equitum; Sometimes a single Phalange, as in h Arrian mention is made of Taxis Oceni, Taxis Perdicca, and Taxis Meleagri &c. who were Phalangarches, as the flory shewith. i Sometimes for all the armed, as Taxis Pha-325 B. Car langicarum: Sometimes a rancke of men standing embattailed, as in Thucidides, who discribing the battell of the Lacedemonians, (ath the front (which he calleth the first h Armin leb. 2. rancke teen proteen Taxin) consisted of 448. But in a more special signification it is he he will be a staken for a band of Souldiers. And in that signification the number varieth. In Xenophon, it comprehendeth a hundred men : What the number of the Athenian Taxis was, I finde not delivered by any Writer. That they had Taxiarchs & Polyenus sheweth plainely. And if a man with leave might geffe, I would imagine their Taxis confifted of 250 men : For I finde in the same place of Polyenus, that they had Chiliarchies. Pentecoliarchies, Taxies, and Lochagies. I have before shewed, that Lochos in Xenophon is made sometimes of about 100. men. Out of which may be inferred with probability, that Taxis, being the next degree about the Lochagie, hath the double number, or more; The rather because a Chiliarchy having in it a 1000. the Penticosiarchy must have 500, and by likelihood the Taxis 250, as being the next office under the Pentecoliarchy. But what oener the Taxis of the Athenians, or of other people was. Alian maketh his Taxis up with 128 men, and 8. files; which is a double number to the Tetrarchy. With whom Suidas agreeth, giving 2. Tetrarchies to a Taxis: and faith it consists of 128 men. The Commander of the Taxis is called a Taxiarch, as the Commander of the Tetrarchy is a Tetrarch. Here I am to note by the way, that the Interpreter of Xenophon translateth Taxiarcha, the Commander of a Cohort; where Taxis in the fraighter signification cannot be taken for a Cohort because a Cohort differeth much in number, having in it at the least 500. and odde men, where the Taxis, l Polyblib. 11. when it is greatest hath nomore then 128. And 1 Polybius saith plainely, that spira is the Greeke word, that fully expresses the Romane Cobort.

m Polybius n Diod Sicul lib. 13 391.

* Cop. gr.

o Suidas in mécos.

p Suidas in Iul. Poll. lib.

A Syntagma The word commeth of Syntasso, or Syntatto, to place together; and a Syntagma is a body compounded of many parts artificially put together. " But it hort Syntams, may be taken for any body in the armie. " Diodorus reports of Dionysius the elder That lib. 11 cat. C. after he had divided his whole Armie, (which had in it 30000) into three parts, he imployed two against the Carthaginian Campe in divers manner : himselfe tooke the Syntagma, or third part, which confifted of mercenary Souldiers, and led against that quarter of the campe, which had the Engins. * Ælian also vseth the word diverslie; For he calles the whole armie by the name of Syntagmata, in the plurall number, and sometimes Syntagma in the singular. And further gives the same name to a file; " Suidas likewise discribing the length of a Phalange, saith, it is the first rancke (Syntagma) of file Leaders, which stretcheth forth in a right line from winge to winge. Whereby appeareth that which the Logitians affirme, (which I touched before) that there are more things then names of things: And that fit names cannot be given to all. The names that have beene given by antiquity, to expresse the severall bodies of the Phalange, are to be reteined by vs, as proper enough to signific the thing they meant. Neither are we to vary from them, vnleffe we our selves con invent better. The Syntagma that Elian here mentioneth, is framed of two Taxies, that is of 16. files, & of 256 men. The Commander of it is named a Syntagmatarch. And where he addeth, it is called of some a Xenagy, we are to understand that P Xenagos was he (amongst the Grecians) that had the command of a band of strangers, (as he that levied strangers was called 9Xenologos) and the band it felfe was called a Xenagy. Why the Syntagma should have the a Polyb.lib.1. appellation of Xenagy, Icamot dinine; unleffe the reason were, because it was about the

number, wher of strangers made their companies, that served among st the Græcians. And Ithinke, and shall till better information, that the body of the light armed salled a Xenagy mentioned hereafter, had that name likewise for the same reason. Now of all the bodies in this Chapter mentioned, there is none that commeth so neere the companies vsed at this day, as doth the Syntagma, for (excepting that our numbers differre, and are in divers places more, or lesse) the offices of each are alike. You have in the Syntagma a Lieutenant, or Reare Commander; so in our Companies. In the Syntagma, is an Ensigne, and an Ensigne-bearer; the like in our Companies. In a Syntagina is one Sergeant, our Companies have more. The Syntagma had a trumpet, and our Companies for the most part have two drummes. We onely want a Crier, which every Syntagma among ft the Macedonians had. What the wife and place of all the Officers was , I will straight

5 Fine superordinarie men;] Namely the Ensigne the Reare-commander, the Trumpetter, the Sergeant, and the Crier of whom we last spake. That which I translated, superor dinary, is in Greeke Ectactoi. Suidas gines the reason, why they were sor Suidas in called : because (aith he, they were not numbred as part of the battaile, that is ordered in Edictos. files & ranckes. As Xenophon faith of Miriarches, Chiliarches, and Taxiarches, & (Xenoph. Cyother Commanders (whom Cyrus called to him) that they were not recounted among ft rop. lib. 3.78. the militarie numbers, and might depart from the Phalange without altering the forme thereof. In the files they could not be, because they (hould so increase the number in the files, and make one longer then an other, and hinder doublings, and other motions, besides the deformity, they should bring in, in making the battaile vneuen: And a file of themselves they could not make. The like disorder would they bring in the ranckes, where they could not conveniently stand, unlesse some body filed with them, being much short of a file of themselues. Besides their imployment is to stirre here and there apart, as they are commanded: where they of files, and ranckes never move single, but sointly, as (ball seem good to their Commander. And albeit these fine bee removed from the battaile, yet remaineth the battaile without them entire of it selfe, and in perfect forme, as though there were no neede of them, when notwithstanding their vse is otherwise so needfull that although the battaile may be, it cannot well be without them.

An Enfigne] Our wfe is to call the Enfigne-bearer an Enfigne for breuities fake; As a Drummer, a I rumme, a Trumpetter, a Trumpet; and that not absurdly. A distinction will easily appeare in common speech, by the application of words of circumstance to the one, or the other. The end why enlignes were divised appeareth in Diodorus Siculus; Diodor. Sihe gining diners reasons, why the Ægyptians (whom he accounted the ancientest of men) cul. lib. 1.54. were carried away with superstition of worshipping Beasts, after the manner of the Countrey, hath among st other words thefe in effect : A second cause the Egyptians give, because of old time being in divers conflicts thorough disorder in their Armie, vanquished by their borderers, they had recourse to the innention & bearing of Enlignes in their troupes. They fay therefore, that preparing images of the beafts, they now worthippe, and fastening them to the ends of long staues, the Commanders caused them to be borne aloft; by meanes wherof enery man knew of what troupe he was. And seeing this good order availed much to victorie, they conceiued, that the beafts were the cause of their safety. In recompence whereof they ordered, that none of these beasts should be killed, but be honoured with religious care and worship. Ensignes were then deuised for readines to direct souldiers in particular, whisher to refort in time of fight. " Catars practife agreeth hereto : u Catar. de he telling of his owne fouldiers disorder hath thus : Whatfocuer part they came into bell gall his by chance, and to what Enfigne foeuer, there they staied, least in seeking their

u Vereilib 2

x Leocap 6. \$ 18 19 20.

Di log. 5.

owne they might happily lose the time of fight. And "Vegetius enlargeth the cause wruing thus: The ancient warriors perceiuing that in time of fight the order, and embattailing of an Armie was quickly brought in route, and confusion, to avoide this inconvenience, divided the Cohorts into Companies, and appointed an Ensigne of enery Company. So that in the Ensigne was written, of what Cohort and of what number in the Cohort the Companie was. Which the fouldier feeing, or reading could not eftray from their Companions, though the tumult were never to great. * Leo allo maketh this the vie of the Enfigne: Wee command allo, saith he, that the heads of the Ensignes of euery Company or Band be of one colour, and that the filke of every Turme, or Drunge, have a colour by it selfe. And to the end that every Companie may with ease know their owne Ensigne. other markes and tokens are to be added to the heads of the Ensignes, that according to Turmes, and Drunges, and Companies, they may be knowne. But in any cale, let the Ensignes of every Turmarchy be different one from an other, & cleare to be differened, that the fouldiers may know them even at a farre distance. His meaning, as I take it, is, that every great body, or regiment (bould beare in their Enfignes a severall colour, and that the Companies of that body should likewise hold themselves to the same colour in their Ensignes: So notwithstanding that (as the ve is authis day) the Ensignes of every Company (bould have a feverall marke to bee knowne by befides the colour in generall. For (o both the Regiment may be quickly discerned, and one Company with facilitie be distinguished from another. What the forme of the Ensigne mas, we may out of the former place of Diodorus fee : The Agyptians, faith he, counterfea. ting the shape of those Beafts, which they worshippe, fastened the Portract to the end of long staues. Y Xenophon testifies the like of the Standard of Cyrus. Cyrus (faith be) commanded his army to cast their eyes vpon the Standard, and to follow it with equal pace, and in order. The Standard was a golden Egle firetcht out voon the end of a long staffe. Which Standard is at this day the Stan. derd of the Kings of Perlia. The Enligne was nothing elfe, but the floure of some beast advanced high upon the end of a long staffe. As of an Egle, of a Wolfe, of a Horse, and such like; and sometimes they added peeces of coloured filke fastned under these smages to make a greater difference betwint the Ensignes. Whether our Ensignes at this day, made of many ells of Taffaty, or the ancient Entignes of the Gracians (Imay also aide of the Romans, for they observed the Same forme) are the better for vee, I will not now dispute. I may not withstanding freely say, that the stronger reason weighth for the Ancient. For besides the authoritie of such excellent wits, as they were, and so exquisite in heir invention, the reason of the lightnes is to be preferred: Besides the winde bath no such force over them, and they neither hinder the Souldiers, that stand next by entangling, nor by flapping in their faces, nor take away the fight of such things as are to be observed and regarded in the field. For the matter whereof the Enfigne was made. 2 fee luftus Lipfius in bis Commentaries to Polybius. As for the armour of the Enfigne-bearer (especially the Ensigne-bearer of the armed) Itake it (for I have no antheritie therein) that he had the fame describe Armour that the Souldier which fought under the Ensigne had (excepting the Target) both to assure himselfe from the flying weapons of the light atmed, and from the pike and (word of the armed, in case the battaile were entred and pierced as farre as the Enfigne. For it was no reason, he should carry a Target, lest both his hands should be bound, the right with the Enfigne, the left with the Target; and so he have no wse of either against the enemy. And in the left hand I would give him a speare, or lauelin, (not a pike, which cannot be weilded with one hand) for his owne defence, and to offend the enemy. Which weapon, I have read Eu-

figues of accient time did beare. What the Enfigues place was, whether in front, or in the middlest of the Battaile, I see it controverted. Patricius absolutely affirmeth, that f Patric Paralle the Enlignes were placed in the middelt of the front, and had 8 files on the right, and P malb. 10. 8 on the left, to the end they might be seene, and followed by all. That Ensignes were ca. 3. first invented to be a marke of severall bodies military in an Arms, I have before shewed. But it followeth not thereof, that they were placed in the front in time of fisht. For being in the middle, they no lesse gaue notice, what the body was, than in the front. The reason of following is of lesse force; Inasmuch as the Souldier well knoweth whom to follow, though he had no Ensigne at all, the Commander alwaies with his motion giving him direction, when to advance forward, when to turne his face to the right, or left hand, when to countermarch, when to double, and when to use all other motions military. And the Commanders were therefore called Leaders, because they went on before, and the Souldiers followed after. So that the Ensigne, in regard of following, neede not to be stin the front. & Tet in exercising the troupes, and inmarches, I finde, that the Ensigne & Leo Cap. 7. was in the front, together with the Captaine, Crier, Trumpeter, and Guide. But \$ 3.3. & cap.14. Itake the reason to be, because being in the middest, and having neither file, nor ranke with the rest, they might happily bring a confusion, and be a hinderance to the changes, and diners figures of the Battaile. When the time of fight was the Enfigne retired to his place, that is to the middest. For so h Leo interpreteth himselfe in his precept of closing files: h Leo cap. 7. which must be done, saith he, not onely by File-leaders in front, Commanders of fine, and \$33. Bringers-up in the Reare, but in the middest also, where the Enligne standeth. And Irasher agree to Leo herein, because Isee, it was the manner of the Romans also, to place their Ensignes in the middest of their Maniples. From whence came the appel- Lipsius ad lations of Antelignani, Souldiers that flood before the Ensignes, and Postignani, that Polyb. lib. 4. food behinde. Besides the Ensigne being in the front, the Ensigne bearer may some Dial. 3. ga a clap, who falling the Ensigne goeth to ground, and is in danger of loofing, which was the greatest disgrace among the Romans, that might befall. Lasty, & Elian him-k posteac. 26. selfe in plaine words placeth the Cornet of horse farre from the front. For speaking of the ordinarie Horse-troupe, he saith it is to consist of 64 horse, the first ranke of 15 horse, the 2 of 13, the 3 of 11, the 4 of 9; descending still, and diminishing 2 horse in eury ranke, till you come to one. He addeth; he shall carry the Cornet, that standeth in the second ranke next the ranke-Commander on the left hand: which ranke is the second ranke, himselfe declareth, making the ranke of 15 the first, the 2 the 13; which is the 7th from the front, and next the reare but one. If the Cornet have no place in front, why should the Ensigne, considering both serve to one vee, and the reasons of feeing, and following are equall to both? And albeit 1 Suidas place the Enfigne, the 1 Suidas in Crier, the Trompet, and Sargeant, before the Battaile, the Lieutenant in the reare, Edicos. he is notwithstanding to be understood, of the times of marching, or of exercise, which I noted before. For what (hould that Rable of vnarmed (being 4. in every Syntagm2, and in the whole Phalange 256.) doe in the front in the time of fight, but onely pefter the chof n of the Armie: who therefore have the front, that they may make speedier way into

7 A Reare-commander] Was the same that a Leutenant is with vs. He commandeth the Souldiers in the Reare, no leffe then the Syntagmatarch in the front, and had his place in the Reare. What the duty of a Reare-commander was, I have shewed out of " Cyrus words in Xenophon. And " Elian afterwards setteth it downemost m Kenoph. plainly. He was armed, as the rest of the armed of the Syntagina, namely with Pike, and Cyrophib.6. Target, and with such other armes, as I have described in my notes upon the second 167. E. Cham.

8 A Trumpet]

a Saidesin Eántios.

thicis 143.

Lytergo.

Poliux lib 4.

i Pzin na

cap 1.5.33.

i Polyeniaha

m Athenzus

diprotophib

82 517.A.

n Paulan in

C. D.

70

8 A Trumpet. The invention of the Trumpet is attributed to Tirrhenus Hercules sonne. But the different wie of these officers is worth the noting out of . Suidas: The Crier, faith he, ferueth to deliver directions by voice, the Enfigne by Genall, when note taketh away the hearing of the voice: the Trumpet by found. when thorough thicknes of dust a signall cannot be discerned: The Sargeans to bring such things, and despatch such messages, as his Syntagmatarch commands. So that the cofficers were held all necessary for a Company, the one supplying the defect of the other, and ferning for when the other failed. The Trumpetthen was to be wied according to Suidas, when neither the Crier, nor Enfigne could doe feruice. With she Trumpet was the fignall given for the Campe to remove, for the Campe to lodge. By the Trumpet the Souldiers were taught their time to fight, their time to retreate. The Trumpet let and discharged the watch. From the Trumpet came the measure of the Marche, and the quicknes, and flownes of Pace. In briefe, the Trumpet did all the effices that the Dromme doth with vs at this day. Whether the Trumpet or Dromme, are of most viein the field, I may not now dispute. Onely I will say that the Gracians and Romans the most expert and indicious Souldiers, that ever were, beld them selves to the Trumper, and never weed the Dromme. The Dromme was first invented by b Polyenish 1. Bacchus, who, as Polyenus reporteth, fighting against the Indians in stead of Trumin Baccho S. r. pers, gaue the fignall of Battaile with Cymballs and Drommes. From him it came Corringling to the Indians, who wfed it altogether, as Curtius noteth in the battell betwist King Alexander the Great, and Porus. The Dromme of Parthians is described by a Plud Flutarch.in tarch in the life of Crassus; and by Appian. I And Leo faith, the Saracens, c App. in Par- who invaded Christendome, and infected the Turkes with their Superfittion, ordered their fights by the Dromme. From this Easterne Asiaticall people it was be ought into Europe; and now the generall custome is among stall Europæan Nations, that the foote f Leo cap. 18. have Drommes in the field, the horse Trumpets. And yet for the Trumpet, I can-S. 113. Plutarch in not fay, that all the Gracians held themselves precisely onto it. 8 Platarch much commendeth the Lacedemonian manner of toyning with the enemy, and writeth it is in this fort: When the King hath offered the Goate (that was the Lacedemonian factifice, when they were to give battaile) hee straight commands all the Army to h For this mea. crowne their heads, and the Flutes to found the measure of & Caftor: And himfelfe withall beginneth the 'Paan; (the fong they vsed when they were to charge) and advanceth first against the enemy. So that it is a braue, and no lesse fearefull thing to behold them pacing according to the measure of the Flute; neither diffoluing "their order, nor thewing any aftonishment of minde, but mildely, and joyfully approching the danger of conflict, dividing out their Marche to the found of the Pollex. lib. r. instrument. For it is not likely, that men so demeaning themselves, can be transported with feare, or choler. Nay rather they must needes have a setled minde full of hope, and affurance, as if God were present on their side: thus Plutarch. Out of whose words it is cleare, that the Lacedemonians vsed no Trumpets in fight, but Flutes, and made them their instruments to daunce, as it were, the measures of warre k Thorndalb, by. For they wied an easie, k and slow pace, framed 1 to the cadence of the sound; which may well be refembled to the folemne messure, in dancing. " Athenaus rehearfethout of Herodotus, that the Lydians ofed the like. But he addeth; that the Cretans made choice of the Harpe for their instrument of warre; as though it had beene peculiar to that nation. " Paulanias testifieth the like of the Lacedemonians. " Polybius coeth not so farre, but affirmeth enely that the Cretans, and Lacedemonians in stead of Lacon es. 193. Trumpets brought in Flutes, and measures into the warre. And if it were so that the Lacedemonians ved Harpes, it is like, they tooke them from the Cretans. For I finde

in Plutarch, that Lycurgus brought many of bis laws from Crete, and had great p Plutarch in familiarity with Thales the Cretan, whom he also Sent to Lacedemon, to make an over- Lycurgo. ture for the establishing of his lawes, that were then newly sinished. Tet a Diodorus q Diod. Sicu. Siculus reporteth, that the Lacedemonians vsed also Trumpets in their Battailes. He lib. 15. 475. writing of a fight that was betwint the Thebans, and Lacedemonians under the leading of Agefiliaus; vfeth thefe words in effect: There was aftrong fight betwixt them a long time, and at first Agefilam had the better; but afterward, when the Thebans issued out of the City at all hands, Agesilaus seeing the multitude, caused the Trumpet to found a retreat. The signe of retreat here, was given by Trumpet, and it feemeth the Lacedemonians had the vie both of Trumper, and Flute. Tof the r Polyen, lib : Flute in pacing toward the enemy to isyne battaile; of the Trumpet in all other mil tary in Procles 61. fignalls, such (Ibaue before notedit) as the rest of the Gracians gaue by Trumpet. Pau anin La The place of the Trumpet in the time of the Rattailem as methics the Dhalande by the Conicis 193. The place of the Trumpet in the time of the Bastaile was within the Phalange by the Enfigne. Thucydides placeth the Flutes of the Lacedemonians within the battaile, f Thucyd lib where they can finde no roome, unlesse they stand by the Ensignes. And albeit Polic- 5 393. nus faith, the Flute led the Army, and went before, yet that is to be understood in the in Proceed to murche. For in case of a Marche, or exercise, " Leo also giveth the Trumpet place by Leo case." the Captaine in front. When the fight commeth, he retireth himselfe to his place in the \$ 35. 9 A Sergeant.] The word Hyperetes signifieth a Minister, (which is all one with the French word Sergeant, as appeareth by the interpretation of our Law it Selfe, wherein the Sergeants, next degree to luftices, are called feruientes ad legem. I re-

teme therefore the name of Sergeant, because it is familiar amongst souldiers. And a Sergeant bath the Same office in our Warre that Hypenetes had among it the Gracians. What his duty and service should be, is declared out of " Suidas. There were of x Suidas in these officers, as well among the borse, as the foste, as appeareth in I Xenophon. The Education estimation and worth of their places is expressed by the same Xenophon. 2 Cyrus held y Xenophon. the Corporate in warre Crish he warren of an last Land Land Cyrop. Lib.7. the Sergeants in warre, saith he, worthy of no lesse honour, than a messengers, 19t. A. and Embassadors in peace. He conceived that they ought to be trusty, skilfull in 2 Xmoph. matter of warre, vnderstanding, quicke, swift, industrious, and voide of seare; be- 44.D. sides endued with all qualities requisite in the best fort of men; & that they were a See Suidas in to accustome themselues to refuse no manner of service, but willingly vndergo whatsoeuer is laid vpon them by their Commanders. These Sergeants attended their Commanders in Marches, and other times, saue onely when Battaile was to be ioyned, and alwaies expected his command. During the fight, they retired to some place, where they might bee ready at call; for (as I faid before) they could have no place

10 A Criet.] Concerning the office of a Crier, Suidas hathtaught vs, that he was to deliner the Commanders pleasure by voice. Leo calleth him Mandator, from the b Leo cap. 4. Latine word, because he signified to the souldiers, Mandata, the commandments of the \$16. Captaine. In exercise he stood at the head of the Troupe, taking from the Commander the words of direction, and making, as it were, proclamation of them to the Souldiers; and served often, when neither Trumpet, nor fignall might be given; be was otherwise also of great vse. For in all busines which required distinct signification of any sudden alteration in the Armie, the Crier had his part alone. 'Xenophon telleth in the Græ- c Xenoph de cians returne out of Persia, that Clearchus their Generall led them not against the exped.Cyri enemy, both because their courages began to fall, and also because they were all the day fasting, and it grew somewhat late. But yet hee turned not out of the way, left he might seeme to flie; but holding on right forward, he came with the

age that are the second

b Xeneph.

lsb. 2. 474.

The Tacticks vantgard, to the next Villages by sunne-set there quartered; The very timber of the houses of some of those Villages was broken downe, and carried away by those of the Kings armie. The first therefore lodged themselves reasonably, the last being be-nighted euery man tooke vp his lodging as it fell out, and made a great noise, calling one after an other, so that the enemie heard it. Whereby it came to passe, that the next of them fled out of their tents. This appeared the next day, for neither was there carriage-beaft, nor Campe, nor smoake neere athand to be seene. The King also was terrified as it should seeme, with the accesse of the Armie. Which he declared by the next daies worke. Yet in the processe of night a teare seased the Gracians themselves: and the tumult, and hurleburly was such, as is wont, when men are possessed with feare. Clearehus in this distresse commanded Tolmides the Elean (whom hee then had with him, the best Crier of those times) after silence, to make proclamation, that the Commanders fignified generally, that who foeuer could bring foorth the Author of this tumule a About a 176 should haue a * talent of silver for his paines. After this proclamation made by pounds that ling the Grier the Souldiers perceiued, that their feare was vaine, and that the Comcap. 6.430.437. manders were in safety: Hetherto Xenophon. By which narration may appeare, that the Crier performed that, which neither Trumpet nor other fignall could doe , the terror rising in the night (which is the time of confusion and disorder) and neither could the Trumpet give any certaine found to remedy the perill, nor any other signall be discerned by reason of the darknesse; and this service was done by the Crier amongst his owne folke. His service against the enemie is declared in the fact of Cleocrytus the Athenian Crier who after the fight, betwixt Thrasybulus and the 30. Tyrants (wherein Critias and Hippomachus were staine) with a proclamation to the Citizens, reconciled them to Thraly bulus, and was cause that the Tyrants were deposed, and had their authoritie abrogated by the people. The like service was done by a Criet in the behalfe of the Gracians against the Persians , about the time of the battaile of Platax. The storie is this: c Diodor. Sie: e When the Gracians vnder the conduct of Leotychides, the Lacedemonian, and Xanthippeu the Athenian, had gathered a fleete of 250. Gallies together to the end to deliuer the llanders, and the Citties of the Continent of Afia the leffe, out of the servitude of the Persians, they failed out of Delos. The Persians then remained at Samos. But hearing of the approch of the Gracians, they left Samos, and put ouer to Mycale 2 City of Ionia. And because they perceived their shippes vnsit for fight, they drew them on land, and fortified the place, where they landed, with a wodden wall, and a deepe trench. Neuerthelesse they sent for soote forces, from

Sardes, and other the next Cities, and affembled to the number of a 100000

men; And made provision for all things necessarie for warre, the rather, because

they suspected the Ionians would revolt. Leosychides having put his fleete in order,

sailed towards the Barbarians, that were in Mycale, and dispatched away before a

shippe, wherein was a Crier, who had the shrillest voice in all the Armie. Him he

commanded to faile vp close to the enemie, and to proclaime aloude, that the

Gracians having overcome the Persians at Platae, were now come thither to deli-

uer and set free the Gracian Citties of Asia. This was done by Leotychides to the

end to diffeuer the Asian Gracians from the Barbarians, and to raise a tumult in the

enemies Campe. Which also came to passe. What service could bee of more impor-

tance, then to fet a distifion betwirt the enemies ? It was done by the voice of a Criet.

More examples I could alledge, but thefe may suffice. The Criets place was always to at-

send the Commander in the bead of the Troupes, unleffe in the time of fight; at which

time his voice could not be heard but gane place to the noise of Trumpets and clashing of

A Tetragonall forme] That is of fourcequall sides, or source square; But we must understand (which Elian after teacheth) that there are two kinds of Tetragonall, or square bodies military, one in number, the other in figure. In number, when the front, and flancke of the body have either of them as many Souldiers, as other; as the Syntagma bath 16. in front, and 16. in flancke. In figure, when the number of the front is greater, then the number of the flancke, and yet front and flancke stretch out an equal length of ground; as in the squares of horse, whereof Elian speak to breafter. This Elian cap. 18. last square is at this day called a square of ground, because the space of ground, which conteineth the length of the front, firetcheth out infly as far, as the space of ground, which conteineth the deepth of the flincke. It is caused by the difference of distance, which is betwist the Soulds: rs in front, and betwist the Souldiers in flancke. In front; being closed to fight, the distance betwixt Souldier, and Souldier, is but a cubite; that is a foote, and a bulfe. The distance betwint souldier, and souldier, in flancke is two cubits, or three soote, which proportion will give no more, then halfe so many men in flancke, as in front, and getmaintaine the truenesse and enemesse of the sides of the sigure; that is the length of the line, which measureth the front, and flancke, shall be all one. 12 A Pentecostarchie] The word is a command of 500, and that was sometimes the number. In the Macedonian Phalange, it comprehendeth a 512 men. The cause of difference is the difference betwixt the file of the Macedonians, and the file of the ancient Græcians (wherof I have spoken before) the odde 12 men comming in by the fifth doubling of 16. And the number being so neere 500, though somewhat aboue, the name of Pentecossarchie is still retained , because it was then in use, and no other more fit could be found. 13 A Chiliarchie] The command of 1000 men according to the name; Eliangiuthis a 1024, from the doubling of 512. The Tribunes of the Roman Legions are by

me Greeke Historians tearmed Chiliarchs; yet is there a great difference; for the Chiliarchs hanc no more command, then over their Chiliarchy consisting of 1000 men, and fametimes of more, as herein Elian of 1024. But every Tribune had in his turne the command of the whole Legion. And againet bere being 12 Tribunes, to every Legion (which at first bad in it 3000, afterward 4000, then 5000, and in the time of Vegeti- 2 Plutarch, in us 6000 men) how should a Tribune be called a Chiliarch and be a Leader of a thousand, Romulo. there being in the legion but 6000 men at the most, and yet 12 Tribunes; so that every b Salust in Iuinchui sand have, aboue 500 for his command; and in Polybius time, (the legion be- c Veget lib. 2. ing but 4200) not about 200 and odde. But the Roman manner of warre and ordering cap 2. of troupes, differed much from the Gracians; and the Gracians in tearming a Tribune 4 Chiliarch, tooke the next word, and most significant amongest them to expresse the charge of a Tribune. Our Coronells, for their command, of a Regiment come neerer to the Gracian Chiliarchs; yet ours differ inthat they have Companies intheir owne Regiments, which the Gracian Chiliarchs had not, and where Q. Curtius faith, that a Quint. Cart. the Chiliarchy was first instituted at Babylon by Alexander, as a reward for service, lib. 5. 166. a feemeth to be otherwise. For as I finde this in no other Author, so finde I, that Chiliarchies were long before Alexanders time. . Xenophon reportesh, that Cyrus to e Xenoph. Cygine encouragement to his fouldiers to be valiant, promised to the Taxiarchs to make them to slib. 2.43. Chiliarchs, to the Lochagi to make them Taxiarchs, to the Decharchs to make them (Xenoph. Cy-Lochagi, to the Pempadarchs to make them Decarchs; And that Cyrus made rop. lib. 488 B. Chrysanthas a Chiliarch of horse in regard of his worth, and forwardnesse in service. Exchops. Cy-And afterward he calleth & Phranuchus, and Afiadatas, Chiliarche of horse, and Ar- 108, lb. 6. tabasus and Arragersas Chiliarchs of foote: h Polyenus witnesseth that in Iphicra- h Polyenlib.3. tes his time the Athenians had Chiliarchs, and Pentecoliarchs, fo that the institution in Iphicrata

of Chiliarchs could not be referred to Alexanders being at Babylon, confidering it was Arrian lib. 2. " Ufe before; And Arrian reporting the same story, faith not, that Alexander first brought up Chiliarchies there, but that he ordeined two Lochi in every horse troupe (where to that day there had beene none) and two Lochagi to command them. Indeed b Diod. S. al. b Diodorus Siculus, writes thus concerning a Chiliarch. Antipater, faith he, lving vpon his death-bed declared Polyperchon Protector of the Kings (being the eldest of those, that had served Alexander in his warres, and much honoured of the Macedonians) and his owne sonne Cassander the Chiliarch, and second manin authority. The place and institution of the Chiliarch first grew to name and honor vnder the Persian Kings. So writes Diodorus of this Chiliarchy which Antipater bestowed upon his sonne Cassander. Which notwithstanding seemes much to differ from the common Chiliarchy of the Phalange, wher of Curtius Beaks. For Diodorus faith. he was next to Polyperchon in authority. Where in the Phalange there were many Commanders, namely, the Merarchs, the Phalangarchs &c. abone the Chiliarchs. Adde that he faith, the institution of this Chiliarch came from the Persian Kings, when the Chiliarchs of the Phalange had their beginning from the Gracians, and were ordinarie in Phalanges, as I have Thewed. Lastly where Diodorus reporteth, that it had the increase and advancement of honour from the Persian Kings, he sheweth plainely, it was not Alexanders invention. And the same Diodorus speaking of the death of Ochus King of Perlia telleth, that he was poisoned by Bagoas his Chiliarch in the time of

14 A Merarchy The command of a part or halfe; for a Phalangarchy confifteth of two Merarchies. So that a Merarchy is halfe the Phalangarchy, and conteineth, 2048 men. This part is also called Telos, of which I have spoken in my notes to the seventh . Thucydlib.t. Chapter. And yet the word Telos is not alone veed inbodies of foote. For 'Thucydides speaking of the fight by sea betwint the Corcyrains, and Corinthians, telleth, that the Corcyrwans gaue the right wing to ten Athenian Shippes, and having of their owne a 100 and 10 hippes, divided them into three Tele, every of which was commanded by one of their Generalis: fo that Telos there significath not a cert aine number of ships, but a part of their fleet divided into 2:00 the Comanders of the Corerraans are cald Strategoi.

the reigne of Philip, Alexanders father. This Chiliarch then Itake to be the fame, that

the Generall of an armie is with ws. And I can hardly be perswaded, that Antipater

wouldbequeath a lesse place to his sonne Cassander.

15 A Phalangarchie The command of a single Phalange. Of this kinde were e Arnanlihat, the d Phalanges in Alexanders armie (as Itake it) which were led by Canos, by Perdiccas, by Craterus, by Amyntas, by Ptolomy, by Meleager, and other, as Arrian hath; Before Philip and Alexander eathered thole forces together, wherewith Persia was subdued, the armies were of smaller number among st the Gracians. Neither was it in many Cities might to raife 4096 men; which go to the Phalangarchy of Ælian: If any did, they might well call it an armie (Strategia, and the Commander Strategos) and the name of Strategos, or Generall was viually given to him, that commanded in chiefe over an armie (though small) fent out by any Citie to warre. So then, as the Generall was called Surategos, a Phalangarchy might also becalled Strategia. I have before noted, that the sections of the Phalange are limited, and laid out by the Phalangarchies. And where there are 3 fections in a Phalange, the middle fection is in the midft of the 4 Phalangarchies, 2 Phalangarchies lying on the one side, and 2 on the other. The 2 other sections are one betwist the 2 Phalangarchiesof the right wing, the other betwist the two Phalangarchies of the left wing, for betwixt enery Phalangarchie was a space or section.

16 A Diphalangarchie The command of two Phalangarchies; this was one of the wings. Alian gineth it no Commander ordinary, neither doe I remember, that I

baue read Diphalangarchs of Diphalangarchia, as Phalangarchs of Phalangarchia, Tetrarchs of Tetrarchia. Tet was there one, alwaies that commanded the winge, ep-75 pointed to that place extraordinarily; So a Philip, at the battaile of Cheronæa (where he a Diod. Sicul. overthrew the power of the Athenians, and Thebans, and their Alies) tooke the one wing to himseife, and gave the command of the other to Alexander his sonne being then but young. And Alexander at Granicus commanded himselfe the right wing, and ap- b Arrian.lib.t. pointed Parmenioto the left. So in the battailes against Darius at & Issos in Cilicia, c Arrianliba.

Meros] Meros is a part by dissifton, comming of the wrbe, meiro to disside. Artian libs. And as before, Amerarchie, was balfe a Phalangarchie, so here Meros is halfe the fourfold Phalange. Each then signifieth halfe, but to distinguish them, the one is called a Me. carchie, that is a Commande of halfe, the other Meros, that is halfe: A distinction sufficient to know the one from the other. Two of these Meros make the Phalange conteining 16384 men. And thefe are the bodies militarie, which Elian in this Chapter deferibeth, and which were in vie among st the Macedonians. The other Gracians vied other bodies in their armies. The Lacedemonians divided their whole city, into fixe e Xenopli, de bodies, horse and foote every one of which mas called More or Moire. The rep. Lacedem. bodies, horse and foote zevery one of which was called Mora, or Moira. Their Generall 686.A. was one of their Kings, for they had alwaies two. Euery Moira, had a Polemarch (not much differing from our Coronells) foure Lochagie, eight Pentecosteres, and fixteene Enemotarchs. What the number of the Moira was, is uncertaine, by reason of the secrecie the Lacedemonians vsed in their gouernment, as & Thucydides saith. Plutareh & Thucyd. lib. 8 reporteth, that Ephorus the historian, giveth 500 men to the Moira, Calishenes 700. 39 C. Polybius and others 900. h Diodorus Siculus, agreeth with Ephorus, and elloweth Pelopids. but 500 to the Moira. And i Xenophon numbreth the Moira of the Lacedemo- h Diod. Siculi but 500 to the Moira. And 'X enopnon numbreto the Moira of the Lacedemo-nians, which Iphicrates, defeated hard by Corinth, to have been about 600 men. k See lib. 15.473. the scholiastes, of Thucydides, for the exact number of these bodies. The Atheni-Grechib.4. ans had their Chiliarchs, Pentecosiarchs, Taxiarchs, and Lochagie, as I have faid 528.C. before. And with them were the Lochagi last, where with the Lacedemonians they Thucyd. hb. 5. were next the Polemarchs, but the number of the Lochos was not alike, as I have like- 392. wiseshewed before. Cyrus in "Xenophon hath these orders militarie, Myriarchs Com- in Indicate. manders of ten thou and, Chiliarchs of a thou fand, Taxiarchs of a rundred, Lochagi \$10. of twentie foure, Decadarchs, called sometime Dodecadarchs of 12, Pempedarchs m Xenophon of fixe, which are also called Hexadarchs. " Vibicius differeth not much from Elian, 2, 43, A. faue onely in the number of the file, and the Officers of the file. For where Alian hath a Esymologic fixteene to a file, Vrbicius hath but ten: and Vrbicius alloweth but two Commanders Strates. to the file, the File-leader, and the Bringer-vp Elian foure; the foure Enomotarchs. For the number of the Officers, in the Phalange they agree. And yet the names are not all one. Elian beginneth with a Dilochite commanding two files, thirties wo men, Vrbicius with the Lochagos, who likewife commandeth two files of his, and fine men more, namely 25 men. The next in Alian is a Tetrarch over fixtie-foure men, in Vibicius a Pentecontarch ouer fiftie men. Vrbicius hath next a Taxiarch, a Syntagmatarch, a Pentecosiarch, a Chiliarch, a Merarch, a Phalangarch: And so hath Elian. The mext in Elian is a Diphalangarch, Commander of 8192 men; Vibicius termeth nim 4 Myriarch that is the Leader of ten thou (and men. The Tetraphalangarchy is last in both. But Vrbicius assigneth no more, then 16 thousand to his Phalange, Elian 16 thousand 384. Iulius Pollux thus divideth his bodids, a Myriarchie, a Chiliarchie, a Taxiarchie, a Hecatontarchie, and a Lochagie. What a proportion Leo makes, is to be seene in the fourth Chapter of his Tacticks. Because, be bath a mixture of the Roman and Greeke Orders, I remit the Reader to the booke.

The Tacticks

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	Dilochites	512.
	Tetrarchs	256.
	Taxiarchs	128.
	e Syntagmatarchs	64.
	Pentecossarchs	32.
	Chiliarchs	16.
	Merarchs	8.
	Phalangarchs	4-
	i -	

I have set downe the figures of all the bodies described by Elian as farre, as the Phalangarchy. The rest would have beene troublesome to insert as requiring more paper, then would fland with any reasonable proportion; neither are they greatly needfull. For two Phalangarchies toyned in an even front, and in a convenient distance, will figure one a Diphalange; foure in an even front with a like distance will make the fourefold Phalange. So that thereby the forme of it will appeare.

The precedence, and dignitie of place in the offices of the Phalange.

CHAR. X.

"He best of the Phalange Commanders is placed on the right wing, the second on the left wing, the third in valour in the right hand next the fecond Phalange toward the middle section. The fourth on the left hand next the first Phalange toward the middle section likewise. So the first and fourth Phalange haue Commanders of the first, and fourth worth: The second and third Phalange haue Commanders of the second and third worth. Now wee will shew by demonstration, that the first, and fourth worth, and valor, are equall to the second,

and third; So that the Commanders in each wing are of valor alike. The Leaders also of the seuerall Merarchies are thus disposed. The first hath . his place in the head of the first Phalange on the left hand: The second on the right hand of the second Phalange: The third on the left hand of the third Phalange: The fourth on the right hand of the fourth Phalange. Also the Leaders of files in every Tetrarchy are so placed, that the Leader of the first file hath preheminence in valor and place; the Leader of the fourth file standeth next him: Then the Leader of the third file, and the Leader of the second file last. For then are Dilochies of equall valor when the first Dilochie hath the first, and fourth Leaders, the second Dilectry the second, and the third Leaders in valor and reputation. For it appeareth in the Mathemaricks, that, when there are Analogies, or answerable proportions of foure magnitudes propounded, that, which arifeth of the first, and fourth, will counternaile that, which arifeth of the second, and third magnitude. And because there are soure Tetrarchies in enery Syntagma, wee may give the Leaders of the Tetrarchies place according to the same proportion, as to place the Tetrarch of the first 7 etrarchy on the right hand, guing him the first place of worth, on his left hand the Tetrarch of the fourth Tetrarch in the fourth place of worth. Then again & next him the Tetrarch of the third Tetrarchy in the third place of worth, and on his left hand the Tetrarch of the second Tetrarchy in the second place of worth. In like manner are the greater commands also to be proportioned.

Notes.

He former Chapter was of the Officers and of the bodies of the Phalange; this is of the place of enery one, according to his worth. And first wee are to note, that all the 2 Commanders were placed in front of those, that they commanded; to the 2 Xenoph. end they might direct, and lead them as occasion should require. For Xeno-Cyrop, lib. 3. phon faith of Cyrus army, the Decadarchs, or file Leaders, had care of the b Xenoph. files, the Lochagie of he Decadarchs, the Taxiarches of the Lochagie, the Chillarch's Cyrolib. 8. of the Taxiarchs, the Myriarchs of the Chiliarchs: So in the Phalange of Elian the 203.A. file Leader had the command of his file, the Dilochites of the file Leaders, the Tetrarchs of the Dilochites, the Taxiarchs of the Tetrarchs, and so the rest, till you come to the Generall, who cared for all, directed all, and under whom all the Commanders were. The Generall hath beene placed sometimes in the right winge, sometimes in the middest of the Phalange. Vegetius saith, that the Generall of the Armie is accustomed & Vegetius to be in the right winge betwixt the horse, and the soote. Hee addeth, this is the lib. 3.cap. 12 place, which gouerneth the whole battaile, from whence the falying out is most direct, and free. Therefore he standeth betwixt both, that hee might both gouerne horse, and soote with counsell, and with authority exhort them to fight. Cyrus in his battaile against Cresus, took his place in the right wing, betwirt the right d Xenoph. band point of the battaile, and of the horse, that were ranged in the wing; Alexander Cyrop. lib. 7. the great, in his battailes tooke the same place; e Timoleon in his fight against the Catt-e Platechin thaginians placed himselfe in the middest of the battaile. f Diodorus Siculus, saith, Timol. that, it is the manner of the Scythians, that the King should stand in the middest of the libe 20.743.

Phalange. The like doth & Arrian affirme of the Per sians, and saith, that Darius had g Arrianlib.2. 26.C. that place. h Leo also give th the middest of the battaile to the General. And there 36.C. h Leocalso placeth the bestaile ouer which he would have him to command.

1 The best of the Phalangarchs] This ordering of the Phalangarchs the best & cop.12.566. on the right hand wing, the (econd on the left, the third next him in the left wing on his right had toward the middle section: The fourth in the right wing on the left hand of the fish toward the middlesection thus, 2 3 4 1 commethout of a Geometricall proportion, which proportion giveth law to the ordering of the rest of the Commanders. The rule wife: 4. Magnitudes which equally exceede the one the other being compared together that which ariseth of the first, and fourth, is equall to that, which ariseth of the second, and third. As 2. 8. 14. 20. each exceedeth the other, 6. The addition of 2. to 20. begetteth an equal number to 8, and 14. added together. So is it in all other numbers, that have the same equalitie of excesse one above an other. Out of this rule of proportion, Alian deriucib the gining equalitie of strength in the Leaders to enery bodeinthe Phalange. For Leaders and Commanders are (or ought at least to bee) chosen by worth, and valour : and the preserments of the feild have beeneheld the due reward of vertue. Say then the Phalangarchs are preferred to their places according to their worth, and that the first Phalangarch is most worthy, the second next him, the third next, the fourth least deserving of the foure. If you should place them, as the troorth is in a rancke successively one after an other, the best before the first Phalan-Sarchie in the right wing, the second before the next Phalangarchie in the same wing, constease the other two Phalangarch's to command the left wing, the disproportion would b great; the third and fourth not being able to match the worth of the first, and second.

But if you place the best Phalangarch before the first Phalangarchie on the right wing. the lecond before the lecond Phalangarchie of the left wing, the third Phalangarch next him before the third Phalangarchie on the left wing, toward the middle Section; the fourth before the fourth Phalangarchie of the right wing toward the same Section. the valours of the Commanders, will be equal in both winges. For as in the number 1.2.3.4. one and 4. make 5, as many, as is made by toyning 2 and 2 together; so the worth of the fourth Phalangarch toyned to the worth of the first will arise as hich in true valuation, as the worths of the second and third toyned together. And where the Phalangarchic on the left corner of the left wing is called the second, and the next Phalangarchie standing in the same wing the third; it is to be understood that it is second in dignitie, not in succession of number; for the fourth Phalangarchie in dignitie flandeth in place and number next the first; and the second Phalangarchie hath the last place of the whole Phalange. Their places then are after this manner according to Elian.

$$\frac{2}{b}$$
 f $\frac{3}{c}$ g $\frac{4}{d}$ e $\frac{1}{a}$

For the understanding whereof, you are to note, that

- a fignifieth the first Phalangarchie.
- b the fecond Phalangarchie.
- . c the third Phalangarchie.
- the fourth Phalangarchie.
- the Section of the right winge.
- the Section of the left winge.
- the middle Section.
- the place of the first Phalangarch.
- the place of the second Phalangarch.
- the place of the third Phalangarch.
- the place of the fourth Phalangarch.

2 The Leaders of the Merarchies \ \(\sigma s \) the Phalangarchs (o are all the other Commanders of the severall bodies placed by foure, and the same observation to be had, of the dignities of the place, that was in the Phalangarchs: and thefe 4 Merarchies (for Elian peaketh of no more than 4.) must stand thus.

P, flandeth for Phalangarchs.

M. for Merarchs.

Robortellus confesseth he findeth these Merarchs so placed in a written booke, and it is the true placing. The figures, he setteth downe out of his owne wit (as he termeth it) carry with them no fauour of Elians proportion. Patricius likewife feemeth to have mistaken this proportion in the figures he hath set downe of which not one is right. I will referre the Reader to their bookes, admonishing him onely of the mistaking. But Elian placeth here but 4 Merarchs; what order shall be for the other foure? I have alwaies thought Elian defective in this place, neither could I hitherto finde any man, that hath brought light to cleare the doubt. Patricius that purposely discourseth of this place of of Ælian.

Elian, Beaketh of bestowing 4 Merarchs onely, as though the rest were to be throwne anay from the Phalange. Robortellus feeking to bestow all 8, bestoweth them indeed, but not according to Elians proportion, which notwithflanding he would feeme to follow. His figure is this.

The proportion is his, as I said, and not Elians. For Elian placed the first Merarch in the right wing ; he placeth him in the left; Elian the second in the second Phalangarchie, he in the fourth; Elian the third in the left wing, bein the right; Elian, the fourth in the fourth Phalangarchie, he in the first. The rest are so sumbled together, as though any thing elfe had beene fought for, rather than proportion. I take not upon mee to over-rule any doubt; but if among it the rest I enterpole mine opinion, I hope, I shall not incurre suft blame. Thus then : seeing Elians meaning is by evenesse and worth of number of both wings to finde out the worth of the Commanders of both, if I (o difribute them, that the number of the one fide shall counterballance the number of the other, I cannot much stray from Elians meaning. The figure following will doe it.

In this figure I have observed precisely the place, that Elian gave to the 4 Merarchs. The first flandeth on the left hand of the first Phalangarch; the second on the right hand of the (econd Phalangarch; the third on the left hand of the third Phalangarch; the 4th on the right hand of the 4th Phalangarch. The rest I have added, and divided according the placing of the first: So that the number that ariseth of the addition of both wines, is alike, and the proportion held. In all the rest of the bodies, where there is a Command oner 4, the keeping of the proportion hathno difficulty. So every Phalangarch commandethouer 4 Chiliarchs; euery Merarch ouer 4 Pentecofiarchs; enery Chiliarch oner 4 Syntagmatarchs; enery Pentecosiarch ouer 4 Taxiarchs; euery Syntagmatarch ouer 4 Tetrarchs; enery Taxiarch ouer 4 Dilochites; enery Tretarch ouer 4 files; In all which the Commander, which hat'n the right, hath the first place, he that hath the point of the left hand, the second place; he that standeth on the right hand next to him, the third place; the last place is his, who standeth next to the Commander of the right point on the left hand. And for the place of the Phalangarchs, and of 4 of the Merarchs, and the file-leaders, and of the Tetrarchs, they are laid out by Elian. The rest appeare by these, and are to be squared by the same rule of proportion, as Elian admonified.

5.54.

The distances to be observed betweene Souldier and Souldier in opening and shutting the Phalange.

CHAP. XI.

E are now to speake of distances both in length, and depth betwixt Souldier, and Souldier, as they stand ordered in Battaile. The distances vary in three forts. For first they are placed in thinner distance for some speciall causes. And a Souldier so placed taketh vp 1 4 cubits. But in 2 Densation or closing he taketh vp 2 cubits. 3 In Constipation or shutting, one cubit.

Densation then, or closing is, when we draw wide distances close together, and by fide-men, and followers (that is both in length and depth) gather vp the bodie of the Phalange: so notwithstanding that the souldier yet hath libertie to move, and turne about.

Constipation, or shutting is when the Phalange by side-men gathereth it selfe yet closer together, then in Densation; so that by reason of the nearenesse there is left no Declination, or turning of faces either to the right, or left hand.

The vse of Closing is, when the Generall leadeth the Phalange against the enemy. Of Shutting when he would have it stand fast (and as it were locked up, and ferred) to receive the charge of the enemy.

Seeing then there are 1024 File-leaders in the front of the Phalange, it is plaine that 4 in their ordinary array they take vp in length 4096 Cubits 5 (that is ten furlongs, and ninetie fix cubits) In Clofing fine furlongs, and forty eight cubits. In Shutting two furlongs, a halfe, and fower and twenty cubits.

Notes.

A feer Souldiers are armed, and distributed into bodies military, the next care is to be had of their Mouing. For as a man, let him be never so well proportioned, and strong, if he pace disorderly, and either set too great strides, or reele here, and there, or so mince, and tread out his steps, as if his leggs were bound together, groweth hereby deformed, and not onely loseth his comelinesse, but his activitie withall, and possibility to performe anything by french: So is it of an Armie, that hath either too great distances, or a Cxar de bel, is thronged up, or peftred too close together. A Too much thronging bindeth, as it were, the fouldirs hands, and taketh away the wfe of his weapons, as on the other fide falling Philopochene. one loofe from another, and flanding or mouing too farre a funder, maketh the Battaile weake, and dissointed, and subject to the enemies entry, and easie to be broken. The meane betwist both was brought in by King Philip, King of Macedonia, who first constituted, and raifed the Macedonian Phalange, and invented the distances of opening and closing e Diedor Se the same; initating the ferring of Targets (called Synafpismos) practifed by the old Heroes at Troy. Out of his discipline fprun; the distances mentioned here by Elian: d Poliblib 12 Which are of three forts; The first are large distances of

1 Foure Cubits Which amount to fix foue. For a Cubit conteineth a foote Leo cap 17. an laha fe. This distance was read in marching, or else in solemne pompes and shewes. e tol 5.45. 17 And the foundeer basing a pike of \$ 14 Cubits or 21 long, whereof one halfe lay forward on his foonlder, and the other halfe backward, it was requisite he should have areaf Leo cap 7. Sonable large distance, both in file and ranke, to the end, that in turning this way, or that

tonowed the wartes with hing t map, and gamed histry a dattane, were by this occasion tolled out to succour; and as they excelled the yonger fort in greatnes of spirit, and military experience, so meeting with the run-a-waies, they bitterly reuiled, and raunted them for their cowardice; Then * ferring themselves close, * Synaspilantes and ioyning their Targets together, they repressed, and held the enemy short, who now seemed to have the victory in his hands. Finally killing Ephialtes, and many other, they droue the rest into the City. A memorable scruice of the vse of Targets, and of the Synaspilme of the Micedonians, which was not wfed, but when they either game upon, or received the charge of the enemy. And the Targets so knit together served for a wall (as it were) to the whole Phalange, and by them the souldier

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5 393 to in IS.I 44. .Sicul. 575-

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CHAP. XI.

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d Polyblib is Leo cap 17. c Pol. b.hb.17 f Leo cap 7.

5.54.

a Cxfir

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Leo cap 17.

f Leo cap 7.

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Two Cubits] Or three foote. The name of it in Greeke is Pycnosis, that is thickning. In Leo it is called Sphinxis, (knitting together) in our moderne exercise Order. And it is, when from the distance of 6 foote, we draw our Phalange both by file, and ranke, so close, that the souldiers stand but 3 foote one from an other every way. This distance is veed, when the Army approcheth neare to the enemy (and onely commeth not so charge) that it may be ready to flut, and locke it felfe for the charge, which is performed in the last distance of

One Cubit] A foote and a halfe. This is called Synaspismos, ionning Target to Target. For, as 1 before shewed, the pikemen of the Macedonians vsed also Targets with their pikes, and in charging the enemy closed so neare in front, that their owne Targets touched one another. This kind of fight's the Egiptians veed in Xenophon (which & Xenoph. he calleth locking together of Targets) and by meanes theref had the advantage against Cyrop.lib.7. the Perstans. The Parthian horselikewise comming to charge Crassus with their states: It is called by After they perceived the depth of the locking of Targets, and the setlednesse, Thucydides, and sted astrong the Roman Phalange, they retired, and durst not come to hands syncifing. Thuwith them. And Diodorus Siculus writes that Alexander besteging the City of B. Halicarnassus, there was in the City, and in service of Darius one Ephialtes an Athe-h Appian. in nian, amin of great valour, and strength of body; He by the permission of Memnon A. 164. D.C. Generall of Darius Armie, determined to make a faly. And taking to him 2000 i Diod. Sicul. mercen arie fouldiers, all chosen men, and giuing brands flaming with fire to one lib. 17. 575. halfe, and referuing the rest for fight, he opened the gates, and fell out, throwing fire vpon the engines of battery, which soone caught a mighty slame; And marshalling the rest into a thicke and deepe Phalange, himselfe led on, and was the first that fell on the Macedonians coming to aide, and to quench the fire. Alexander advertised hereof speeded to the medley; & ordered sirst the Macedonians in front, after them other choice men, for seconds; and in the third place men of extraordinarie account for their prowesse, himselfe leading them on sustained the enemy, which seemed vnresistible, and sent others to slake, and put out the fire, and to preserue the Engines. The fight was hot, and albeit the Macedonians found meanes to quench the fire, yet had Ephialtes the better in the fight; who both himselfe killed many with his owne hands, and the towers from the walls furnished with many Catapelts annoyed greenously the Macedonians. In so much that some falling in the place, other-some for saking their ground by reason of the number of Engine Darts that fell thicke amongst them, Alexander himselfe was reduced to extremitie. Here the old souldiers of the Macedonians, although otherwise freed from such service in regard of their age, having of a long time followed the warres with King Philip, and gained many a battaile, were by this occasion tolled out to succour; and as they excelled the yonger fort in greatnes of spirit, and military experience, so meeting with the run-a-waies, they bitterly reuiled, and raunted them for their cowardice; Then * ferring themselues close, and ioyning their Targets together, they repressed, and held the enemy short, who now seemed to have the victory in his hands. Finally killing Ephialtes, and many other, they droue the rest into the City. A memorable service of the vse of Targets, and of the Synaspilme of the Macedonians, which was not wfed, but when they either game opon, or received the charge of the enemy. And the Targets so knit together ferued for a wall (as it were) to the whole Phalange, and by them the fouldier

perreing of the | word. Synaspismos then, or sbutting, is that aistance in the Pinalange.

which bringeth the (onldiers Target to touch one an other, and is limited by Elian to a cu.

bi:e(1b.t is a foote and a halfe) betweet side-men, and side-men in the front. What distance

the followers (hould have, Alian fetteth not bere donne in plaine words; but implies, that

they fould hold their 2 foote fill in that he faith the Phalange in conflipation gathereth

the side-men closer, then in densation, but speaketh nothing of followers. 2 Polybius

teachethit more plainely; who gives them three foote distance from the Leader, both according to the Macedonian and Roman discipline, and that for the wie of their armes: with b Alian c. 14. whom Elian also agreeth afterward. In what manner the Targetiers made their clofings, and how their Targets were cast from the backe, where they hung, to the left shoulder, I have before noted in the second Chapter, and therefore thinke it needlesse here to repeate. Now for the ground, that a Phalange taketh up in each of thefe orders, Elian fleweth it in the words following, allowing the Phalange.

c See Polyb. Lcoca). 17.

4 In ordinary aray foure thousand cubits The Phalange in open order, saith ib. 12.664.C. Elian, takes up 4096 cubits of ground. This is to be understood in front, or length; for in depth it hath no more, then 64 cubits; every fouldier (which are in number, 16 in file) possessing 4 cubites of ground in his open order; A cubit is the part of the arme, which reacheth from the elbow to the middle fingers end, and is as much, as a foote and a balfe. In fron! then, there being 1024 File-leaders, we most alott to each of them four ecubits of ground; to the thousand 4000 cubits, and to the odde twentie foure 96 cubits. For foure times twentie foure makes 96. which together comes to 4096 subits, and to fix thousand one bundred fortie foure foote.

d Suidas in

17 589.

5 Ten furlongs and ninty fix cubits Where this space is squared out by tenne furlongs, wee must understand, that a furlong conteines & foure hundred cubits, and 4096 being divided by 400 the quotient is 10: - that is ten furlongs and 96 cubits, as Elian saith. Which measure of ground the Phalange of Armed taketh in open Order. Of these furlowes e seven and a halfego to amile, by which account the front of the Phalange of armed in open order taketh up one mile, a quarter, and 2 46 cubits, measuring it by feete it amounts to 6120. In closing (which is named Order, and is the next distance) because the souldier is allowed but 2 cubits, that is halfe so much, as in open Order, the dimension will not exceede five fur longs, 48 cubits; that is 2048 cubits in all, which amounts to halfe a mile, halfe a quarter, and 173 cubits, in feete, 3072. In shutsing 2 furlengs and a halfe, and 24 cubits; that is a quarter of a mile and 274. cubits.

The arming of the Phalange.

CHAP. XII.

He Phalange is to be armed with Target and Pike. The best Taget is the Macedonian target made 1 of braffe, and 2 somewhat hollow, and having 3 eight handfulls in Diameter. The Pyke ought to be 4 no shorter then 8 cubits; and the longest no longer, then a man may well vse and wield in handling.

Notes.

R the second Chapter of this booke was handled the diversitie of armes, resed in the Phalange. This setteth forth the choice, that is to be made for matter and fashion, and

what file is best of pike and target. For the other armor of the armed (whereof I spake, in my notes to the second Chapter) is (no question) to be fitted to the body of him, that shall brare them. He giveth then to the armed a target, and a pike, the target the Macedonian target the matter whereof was first of braffe. I have shewed that the Macedonian target was of brasse, and that they were called by reason of the bearing such targets Chalcatoides Brazen-targets. I am induced to thinke, that, as Philip borowed many other things in warre from the Lacedemonians, fo ke borowed this kinde of target from them. For they by the ordinance of Lycurgus, were iniogned to have no other matter in their target, then braffe. 2 Xenophon gives a reason why they were made of braffe. For Ly- 2 Xenophon curgu was of opinion, faith be, that such a Target was most fit for warre, because de rep. Laced. it is soone brought to shine, and it gathereth not rust easily, two great commodities in armes. For a beit the chiefest considerations be surenesse, and strength, yet is not the beauty to be neglected, which (hining doth principally (et out. Besides that it dazeleth b Plutarch in the eye of the enemie, and firikes an amazednesse into his minde. 'Xenophon much ad- Crasso. mireth Agesilaus, that he so armed, and clothed his armie, that they seemed to be Agesilao, nothing, but braffe, and nothing, but scarlet. The braffe be feaketh of, were the bra- 659. B. zen targets of his fouldiers, which couered the most part of the body, and were chiefely the object of the eye, without that, that any other weapon was at that time of Braffe. Theretore, as I faid, 1 am of opinion that the brazen Target came from the Spartans to the Maccdonians. The Brazen-targets Ælian would have

2 Somewhat hollow I If they (hould beare streight out without any bowing, besides that they were vneasie, they would lie kicking out from the body, and not cover it much. The arme or boulder, that is inserted into the Target, is bowing. And the target Imembat bowing fits it for eafe, and Ropeth more toward the body to couer it, and is more pliable to be carried. But the hollownesse ought not to be much. He would have it also

3 Eight hand-fulls in Diameter | The Diameter ina circle is a right line, which is drawne from one side of the circumference to the other pasing thorough the Center, or middle point of the circle, dividing the circle in two equall parts. Here the Diameter of the target is taken for the exact bredth of the target, which ought to be, according to the Macedonian manner, eight handfulls, or two foote, that is 22 fingers. For four handfulls go to a foote, and foure fingers to a handfull. d Leo gives it three Spithams, d Leo cap. 6. that is 36 fingers, if he meane the great Spithame, which is of twelve fingers. And \$ 38. the leffe comprehending a handfull he cannot meane. For so should the bredth of the target lib. 2. cap. 4. beno more, but three handfulls, a bredth in sufficient to coner any mans body. Whether of \$ 32. calleth it them is the bitter will appeare intriall. The Diameter that fernes to cover the bodie from the upper part of the necke to the middle part of the thigh, is enough in these round targets. That, which is more . is rather troublesome, then fit for wee. And I am of Iphicrates inagement in targets, that performing the conering of the bodie, they (bould be as light, as may bee, least the shoulder be over-laden with vnnece sarie weight. In which regard I preferre the Target of Elian, before that of Leo; Elians reaching up to the beight of the necke from the middle of the thigh; Leos carying a handfull more in bredth, which in the circumference groweth to a good proportion of weight and greatneffe.

4 No shorter than 8 Cubits] That is 12 foote. Short pikes against long have a great disadvantage. With the long pike a man is able to strike, and kill his enemy, before himselfe can be touched, or come in danger of a shorter, the pike keeping the enemy out so farre, as the length is. The experience of the battaile of Sorano, hewethit; where rel. partiecum: Vitellozzo Vitelli discomsited the Almaines onely with the advantage of pikes an arme lib. 3. caps. longer than theirs. Igainst long pikes, this policie was vsed by Cleonymus the Lace- in Cleonym. demonian King, as 5 Polienus tells. Cleonymus besieging Adessa, and hauing ouer- 5 2.

The worth that the File-leaders, and next followers should be of

CHAP. XIII.

THE File-leaders (as the Commanders of files of the Phalange) are to be the choice and flower of the Army, and to excell the rest as well in stature, as in experience and martiall skill. For this Ranke knitteth and bindeth in the Phalange. and of all other yeeldeth greatest vie. For, as a sword taking to the edge as a weight, and sway, the swelling yron towards the backe exhibiteth thereby more violence in piercing, so in a Phalange the Ranke of File-leaders is the edge it selfe, and the multitude of after-commers is the swelling, and sway, and increase of

Consideration must be had likewise of those that follow in the second Ranke. For their Pikes reach in yntly ouer the front, and being next in place they are alwaies ready for vie. And the File-leader falling, or being wounded, the next follower stepping to the front in his place, holdeth together, and preserueth the tenor of that Ranke vnbroken.

Furthermore, we are to order the third and the rest of the Rankes according to reason and as the valour of our souldiers shall require.

His Chapter sheweth how the Souldiers are to be ordered in every File: whereof, because I have before poken sufficiently in my Notes to the fifth Chapter; and the words of this Chapter carry no difficultie, or obscuritie with them, I will forbeare to treat ANY further.

CHAP. XIIIL

Of the strength of the Macedonian Phalange, and length of the Souldiers Pikes.

CHAP. XIIII.

HE Macedonian Phalange hath of enemies beene thought vnrefistible, by reason of 2 the manner of embattailing. For the Souldier with his Armes standeth in close order, or shutting, when he is ready for fight, 3 occupying two Cubits of ground. And the length of his Pike is fixteene Cubits according to the first institution, but in truth it ought to be foureteene Cubits; whereof the Aspace betwixt the hands in charging taketh vp two Cubits, the other twelve lye out from the front of the Battaile. Those in the second Ranke, that stand next to the Leaders (loofing foure Cubits in the Phalange) have their Pikes reaching over the first Ranke ten Cubits. Those of the third Ranke eight Cubits, of the fourth Ranke fix cubits, of the fift 4 cubits, of the fixt 2 Cubits. The Pikes of the other behind cannot attaine to the first Ranke. And seeing five or fix pikes are charged ouer the first Ranke, they present a fearefull sight to the enemy, and double the

Piker reaching over the Front



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THE strength of the Macedonian Phalange, which consisted principally in the 1 * protention, and charging of pikes, and knitting together of Targets, is here a Appian in fet downe. The whole Chapter Seemeth to have beene taken out of Polybius, who hand- Syriacis 97 E. teth the fame argument, and almost with the same words, but that Elian, and he differ he loyelib. 17. about the number of Cubits, which the Pikes take up reaching oner the front of the Phalange.

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throwne the wall of the City, the pikemen of the City salied out, whose pikes were each 16 cubits in length. Cleenymus closed his Phalange in depth, and commanded the file-leaders to lay away their pikes; and when the pikemen of the enemy came to charge, to feaze vpon their pikes with both hands, and hold them taft, and the followers to passe thorough by the file-leaders sides, and maintaine the fight. The file-leaders laid hold on the pikes, and the enemy strone to reconer them out of their hands. In the meane time, the followers passing thorough the ranke of file leaders to the front, flew the enemies pikemen, and got the vi-Storie. This was Cleonymus denice against long pikes, which not withstanding derogates nothing from the length of pikes more, than from (hortness. For the same policie might have prevailed as well against short pikes, as long, each, assoone as the enemies have feized upon them, growing to be of no vie. But that the longer pike is to be preferred before the shorter, I have shewed before by re: son: and the reformation of armes made by Iphicrates amongst the Athenians, and by Philopomen amongst the Achaians. will be warrant enough so to hold. In the length notwithstanding ought to be areasonable consideration, that it exceede not the measure of his strength that shall beare the pike.

veight.

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The Superordinary Lieutenant of every Syntagma must be a man of vnderstanding, overseeing the souldiers of his command, that they file, and ranke; and if for searce, or other occasion, any for sake their ground, he is to compell them againe to their places; and in Closing to put them (when neede requireth) as neare up together, as they should stand. For it is a great strength, and assurance to the Phalange, to have some principals Commander not onely in front, but also in the Reare of the Battaile, for the causes before mentioned.

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Greece. And first ouerthrowing the Illyrians, Palenings, Thracians, and Southing after ware jet voon che kingdome or Perflato breake it, after be had enfranchied the Gradin Cities of Affa. And albeit death intercepted him, yet he left tuck torces to his fonne Aleander, that he needed no other Allies to ouerthrow the Soue-Dades we rugnery of Perfia. After his death + Alexander tooke his langdome, and Armic. and with a encountring, and vanquilling Davius in two great Battales, runne thorough Asia like a flash of in immy reasing a pieces ale, that refleted, or flood in his way, and La Conte laid the foundation of the kingdome, which (albeit afterward divided) continued long And mhis Successors. Neither was the experience of their invinciblenesse against the barbarous people onely, but as much ao anti the Gracians, who till Phillips time were efterned the chiefe mafters of Armes in Europe. This is cleave by the victories, the Macedonians obtained again; the renowned cities of Greece both townthy and fenerally. Philip ouerthrew the Phoceans, albeit the Lacedemonians, and Athenians toyned with them. The lame Philip at Cheronaa defeated the pon er of the Thebans, and Athenians ionel to other. 's Alexander tooke and lacked the Citie of Thebes, that about that time wis accounted the mightest Citie of Greece. h His Lieuten int Antipater foyled the Lacedem mians mayes buttale, and flen their King Agis. Antigonus Tutor of Anna Philip the sonne of Demetrius, broke an Armie of the Lacedemonians and Penice Com loponetien ut Sciana, and chaled out of Greece Cleomenes the last brave King of Sporta. Engles they were not besten in the field by any Nation, but onely by the Romans. and set the indepenent of & Polybius, doth in this also proue it selfe good. Billing For where the Romans had thefevittories against the Macedonians, ke assigneinthis to be the cause, that the Phalange at the time of the fight had not the proper place, not meanes to vie it owne power in the encounter; folong as the Phalange hath ground enough, and can meete the enemy with a right front, he holdeth it not possible to be foyled, being divided, and in places vneven, he is of opinion, and experience hath taught, it may eafily be put in a route. 1 Plutarch compareth it for strength (so long as it is one bodie, and maintaineth the Synaspilme iointly) to an invincible bealt; being discurred, he faith, it looseth the force in the whole, and in enery man parcicular, both in regard of the manner of arming, and also because the violence of it consists rather in knitting of all parts together, than in particular of any mans valour. Three hattailes (10 pratermit ainers skirmifees,) I finds the Komans bad with, and the sem forled the Macedonians; One again,? King Pulip, the fanne of Demerius; an effer again, Antiochus; the third against "I'm achim . Perfour the forme of King P step. " For I you constrole, wherein they were beaten by Pytthus, in which morps. " Philip breaking one Phalange, and not ving the whole together but heling against the Romans nits the right winge onely, yet had the better, and was too hard for that part of the Roman Army, that to red with him; but the other wing comming into the field fit rather for amerch, then a fight, and not being able to order themselmes Punlange-wife, were soon defeated, and the Roman victorious, fell woon the rane of the right mine (where Philip mas, and had now gotten the victorie) and forwarn the field. Antiochus anthifull intrue ordering of a Phalange, tru-The same D fleet ather to his horfe, than his Phalange, and being to fight with L: Scipio, where hee that it are guen fall feore, an lext need the front of the Phalange, by making it 16 deeje, becontrary-wife nurrowed u. draw moutthe depth into 32: whereby he loft the advantage of matching the front of the Romans, and after his horse were beaten, nearthen gave facilitie to the enemy of encompassing on it all sides. P Perseus togning battaile with Paulus Amilius, selong at the Phylange continued in the right figure. Sew roany of the Romans, an I forced them to retire, but following onto esgerly, he came to wneuen, and rough ground, wherein the Phalange being dissenced, left spaces, and breaches for the Romans to enter and defeat it. So long them, as the Macedonian Phalange had greatest souldiers that ever were, being in their hands, that kiew not how to use it (as a of the Phalange is assigned to be

2 The manner of embattailing]. Which confists principally in ordering of Target, and pike; in cloting of the Targets by Synaspilme, and in ioint charging of the pikes; which lying out thicke from the front, besides the horror of the sight, give almost an impossibilitie to enter the Phalange. I have alledged the judgement of Emilius r Plurarch in concerning the fight presented by a Pinalange, when the Pikes lie so charged out of the Emilio. front. Polybius thinketh nothing can resist the force thereof. Livy, albeit many (Polyblib. 17. times more than partiall to the Romans, jet in the felfe-same fight betweene Perseus 744 A. and Emilius gineth his indgement thus of the Phalange: The second Legion (faith he) Livy Decad. ininuated it selse into the middle empty place, and so broke asunder the Phalange. Neither was there any more euident cause of victory, then the fights in divers places at once, which first troubled the Phalange in turning many waies, and afterward plainly diffoynted, and scattered it; whose forces being vnited and rough with charged pikes are intollerable. If by giuing on in diuers places you conftraine it to bring about the pikes immoueable through length and weight, it entangleth it felfe with confused croffings. If at one time you charge it both flanke, and reare, they fall afunder like a ruinous building. As then they were compelled many waies to answer the Romans, and so to breake their battaile into many parcells. And the Romans vpon the first opportunitie of a breach straight waies conveighed in their troupes, who if they had met the enemy in front, had runne vpon the pikes, as in the beginning it hapned to the Pelignans, being too forward to come to hand, and could not have refifted the Phalange fast shut, and serred vp for the encounter: thus Livy concerning the Phalange. Who albeit a Roman, holdeth the same opinion that Polybius doth. " And in another place telling of Philips encamp- " Livy decad. ing, he fach, he was lodged in a wooddy plot, which was vnfit for the Phalange, 4 lib 1.18. especially of the Macedons, which vnlesse it cast the pikes, as it were, a muniment before the Targets, (and that cannot be, but in open ground) is of no great vic. So then if Pikes may be charged out before the Targets, the Phalange is of great We. But, that I may not seeme, to rely upon bare opinion, let us heare by an example, or two, the experience of the Pike, and Target of the Macedonian against the Roman armes. * When T. Quintus Flaminius the Rom: Confull had driven King Philip, and his army x Livy decad. from the streights neare Antigonia, seeing that the enemy kept himselse with his 4.lib.a.30.C. strength, and absteined from the field, he determined to try the Cities of Thessa. h; and having wonne some by force, some by feare, he came before Rhage, and besieged it. He found the siege longer, and more difficult, then any man would haue thought. And the enemy made his reliftance, that way, the Confull would hardly have beleeved, he could. For he imagined that all his labour should be in throwing downe the walls. If once he found passage for the Army to enter, there would after be nothing elfe, but flight and flaughter, as is wont, in wonne-Cities. But after that part of the wall was throwne downe with the Ramme, and the Armie entred the Citie by the breach, it was the beginning of a new and fresh labour. For the Macedonians, that were there in Garrison, being many, and chosen, thinking it also a glory to them, if they could defend the Citie, rather with

armes and valor, than with walles, ferring themselves close together in a deepe Philange, when they perceived, that the Romans began to enter the breach drove them out, the place being cumberiome, and hard to make a retreat. The Conful much offended therewith, and thinking that shame concerned not only the delay of winning one Citie, but also the state of the whole warre, (which for the most part dependeth voon moments of small matters) purging the place which was heaped vp with the fall of the halfe-ruined wall, aduanced a Tower which in many stories was stuffed with multitudes of armed men, and sent besides Cohorts vnder their Enfignes to breake with maineforce (it it were possible) the body (they call it the Phalange) of the Macedonians. But the kinde of weapons and fight was more aduantagious for the enemy, than for the Romans; especially in that place, which was narrow, and streightned with the small space of the ouerthrowne wall. When the Macedonians, ferring themselves close, had charged pikes of a great length before their front, and the Romans, after their darts throwne in vaine against the Leftude compacted, asit were, of the thicke knitting together of the Targets, had drawne their Iwords, they could neither come vp close, nor cut a funder the pikes. And in case they cut the heads of, or broke any, the theale amongst the rest of the whole pikes filled up the roome with their sharpe fragments. Ioyne that that part of the wall, which was yet whole, secured the enemies flankes on both fides; neither needed they much ground in retiring or advancing to charge, which things are wont to cause the breach of array. There also fell out a chance which increased their hopes, and spirits. For the Tower being driven on vpon a rampier, that was not well rammed underneath, but had loose earth, one of the wheeles sinking deeper into the ground than the rest, made the Turret to nodd, & lie of one side, that both the enemy beleeved it would fall. and they within it were put in a pitifull feare. When nothing succeeded well, the Consult was euill appaide, that the Macedonian fouldiers, and kinde of Armes, might seeme matcheable to his, and seeing no great hope of speedy winning the Citie, and that the place was vnfit to winter in, railed his fiege. So here the Macedonian fouldier is not onely equalled, but also preferred before the Roman, and that onely by reason of his armour, the Pike and Target. In other experience fell out in the battaile betweet Perseus, and Emilius, whereof I spake in this Chapter. The storie is this: The Romans comming to iowne battell with the Macedonians, and not able to come up to them by reason of the length, and joint our bearing of their pikes. There was one Salius a Captaine of Pelignans, who tooke the Enfigne of his Company from the Ensigne-bearer, and threw it into the Macedonian Phalange. The Pelignans ranne in heapes to the place (for it is not lawfull, nor honest, for the Italians to forfike their Enlignes) where the medley brought forth wonderfull effects. For the Pelignans fought with swords to put by the pikes, and to presse them downe with their Targets. And feazing vpon them to pull them out of the handes of the Macedonians. The Macedonians contrary wife, maintaining their charge with both hands, and striking such, as approched neare, thorough the bodies, as mes and all, neither Target nor Carace, being able to sustaine the violence of the blow, turned toply-turny the bodies of the Pelignans, who not with reason, but with the rage of wilde bealts, threw themselues desperately vpon wounds, and vpon certaine, and fore seene death. So the formost falling, the followers began to flacke. And yet they fled not, but retired to the mount called Appian in Sy. Olacrus. I will out of Appian wyne a third experience in the battaile of Antiochus

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against L. Scipio, which i likewife touched before in this Chapter. As soone, as the Hotle, and Chariots of Antiochus were put to flight by the Roman horsemen, and by Eumenes, his Phalange of foote being destitute of horse, first opened, and received the light-armed, (that had all this while fought in the front) into the middest of it. Then after-ward againe closed. And when Domitius Scipio's Lieutenant, incompassed it round with horse and light-armed, which he might easily doe, by reason it was thrust vp into a thicke Plinth:um; it was driven to great difresse; being neither able to charge the enemy, nor yet to countermarch in so great depth, as it carried. It grieued them much, that their long experience nothing availed them to annoy the enemy, and that notwithstanding they were fibiect to arrowes, and darts at all hands. Yet, bearing out a multitude of pikes on enery side of their square, they called the Romans to come to handy blowes, and fill made a countenance, as though they meant to charge, keeping themfelues for all that within their Ranks, as being footmen, and heavy armed, and the rather, because they had to doe, with an enemy on horse-backe. Besides they were loth to breake the thicknes of their battaile, which forme they could not now alter. The Romans also, durk not approach them, and come to sword, fearing their experience in warre, and closenesse of array, and desperation. But running about here, and there, p'ied them with arrowes, and darts, whereof none was throwne in vaine, falling amongst a troupe so closely put vp together, that they could neither auoide, and decline any thing throwne, nor give way, albeit they saw it comming. At last being weary, and irresolute what to doe, they retired easily, with a threatning countenance not withstanding, and in good order, and not deliuering the Romans of feare, who durst not yet come neare, but fought to annoy them aloofe; till the Elephants placed in the Macedonian Phalange, being affrighted, and not to be ruled by their Gouernours, troubled all, and gaue occasion of flight: hitherto Appian. Out of these three examples, the truth of that , which Elian faith, is to be feene, that is, that the Macedonian Phalange can not be forced, or resisted by an enemy, (taking with all Poly bius his caution) if it be in the right posture, and figure, and have such ground, as is fit. The Romans the best souldiers of all antiquitie were repulsed by it at a siege, forced to retire in a battell, durit not come neare it, after they had gained the field of the rest of the Army. And the Confull Emilius, aman that had fesce much feruice, and fought many abattaile, and was one of the best Generalls of that time, confessed, he never saw so fearefull a fight, as when he bebeld the Phalange advancing into the field, the bodies ioyned, the Targets serred, and locked together, darting out fire like lightning, the front rough with couched, and charged pikes, and armed with yron, and threatning present death to bim, that durft approach.

3 Occupying two Cubits of ground \ We may not take it, as though the fouldier betwixt file, and file had two Cubits, or three foote of ground. For we learned before that in locking up the Phalange, the distance betweene man, and man in front was but a Cubit. But it is to be understood betweene ranke and ranke. For Polybius faith, that the souldier ought to have roome for the vse of his weapon, which cannot be, without granting him three foote behinde, the pike being some-times to be pushed forward, some-times to be drawne backe, sometimes otherwise handled, as occasion of fight shall

The length of the Pike is 16 Cubits] 2 Sixteene Cubits, which is twenty See Leo caps. foure foote, is a great length for a Pike, and it verifieth the words of Livy, \$: & cap.6. that the Macedonian Pike is vnwealdy, by reason of the length, and weight;

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e Polyb. 17.

E Po'vendib 2 yet doe weeread of pikes of that length. The & Accelians had Inch. The Chalvbes Chongao takes were about 15 cubits long. But 16 was the length at the first, the Maccdonie Xenor honde ans brought at to 14, which they tooke to be a sufficient length against the enemit, and eain it is her for the Pike-man to leave and handle. ho 4 3 it. C.

4 The space in charging betwixt the handes taking vp two cubits | Herein it 6 10 0.1.17 a difference betweene Alian, and Polybius. Alian would have no more, then 2 cubits lost in charging; Polybius faith 4 are lost, and with Polybius agreeth Leo. Butthe cause of the difference arises out of the forme of the pike, and of the manner of holding it t Leo at 6. in the charge. If it be held at the buttend with the right hand, and supported toward the armed end with the left, as the manner in charging is it cannot lo fe about two cubits. and A van is in the right. But if, in holding it, you fet the right hand 2 cubits from the buttend, then must 4 cubits of necessitie be lost. Whereof 2 rest behinde the right hand. the other two are tak. n up by the pace betwixt both hands. Our manner of charging is at this day, to take the butt end in the right hand, and in lo doing we loofe but in o cubits. But it seemeth our p kes are not made in that forme, they were in Polybius time. In Polybius age they had wei his at the but: end to make the sharpe end the lighter, as the e Pol b L.17. heavie pummell lighter eth the fword in handling. & This weight was called h secoma. as it were a counter-weight to the heminesse, and length of the pike. Neither do Iread any thing ellewhere then in Polybius, concerning the counter-weight of a pike. To the 146.45 handle of an Oare, I finde in Atheneus, that lead was added, to make the part standing out from the shippe more light. But yet Polybius, and Elians opinions may well agree. naío bilib 5.

> two cubits from the butt end) there may be lost four ecubits, where the other fort being held at the butt end it felfe, loofe but 2 cubits.

k Polyb, Liz.

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The pikes of the other behinde, cannot reach to the first ranke | How shall they beare their pikes then? & Polybius sheweth, what the manner was. Those rankes, faith be, that stand behinde the fifth, can helpe nothing to the fight in front. And therefore they charge not their pikes low, but beare them towards their forestanders shoulders, the points somewhat erected to secure the bartaile from aboue, intercepting by their thicke lving the missie weapons, which slying ouer the front, would otherwise fall voon their heads, that are placed toward there are. Polybius faith the manner was, (neither to charge, nor order their pikes, but) to beare them forwards floping towards the shoulders of their companions before. Tet by bearin them fo, what fecurity they could wive from the miffine weapons, that came aloft, I cannot get conceine. An arrow, dart, or stone, whilese it his inst on the middest of the pskes, would do as much, and sometimes more, harme by glancing, then if it had not toucheathematall.

and in pikes that have counterweights at their ends (the hold for charging being taken

Some would have the hinder pikes longer] The opinion of them, whom Elian here freak thof, hat little reason to ground upon. For either the pike of th milat come in the fluerancks behinde, especially the two last, must exceede in length, or else the fileleader pikes in horinesse, both which are like emprofit ble. If they bee too long, they cannot be weilded if the fetor foot, the enemie shall reach the file-leaders, and not the file-leaders the enemie. The measure of the l'nzest pikewas 16 cubits, which yet for aptneffe and the was by the Macedonians reduced to 14. Say then the fixteenth ranke carrieth pikes of 16 cubits; two of the cubits according to Elian, aretaken away in handling, of er un by reason of the distance of the five former rankes. Four e cubits alone remaine, and reach ouer the front. If the file Leader in the front shorten his pike to foure cubits to make an euen extention, he sit not come neere the enemie by ten eubits, who in pushing will reach home to him. For what length soener, is taken from the file-leader in

front.

front the same is given to the enemie, that pusheth with him. And hee shall bee able to wound the file-teader, and not the file-leader him, especially the pikes differing in logreat

6 The superordinarie Lieutenant of every Syntagma] I have before noted the dutie of a Lieutenont of the Syntagma, and it is here well expressed by Elian. He, that desiresh to see more touching the same, let him resort to Xenophons Cyropædia: lib. 2. 28. and lib. 7. 178. B. and to Leo, cap. 14. 679.

> The place of the light-armed, and the number of every file.

> > CHAP. XV.

Hus much of ordering and marshalling the armed-foote. I will adde a word, or two, of the light-armed, or naked. I The Generall is to place the light-armed so, that they be readie for all attempts of the enemy, sometime in front, sometime in flanke, sometime in the Reare, according to occasion or necessity. For our purpose let them be thus ordered : We will frame also of them 1024 files as many, as the Phalange of the armed conteined; So that the first file of the light-armed be placed directly behinde the first file of the armed, and the fecond file behinde the second, and so the reft. 2 Yet shall they not be sixteene to the file, but halfe so many, namely eight; so that in 1024 files there shall bee eight thousand, one hundred, ninety two men.

Notes.

Itherto all things concerning the arming, filing, embatteling, number, command, distance and precedence of the armed are declared; and likewife, of the arming of the light and somewhat of their place. Now followeth the filing, ranking, and place more exactly, and their manner of embastailing, with their seuerall bodies, and

The Generallis to place I than spoken somewhat before of the placing of the light. I will now onely adde a passage of Leo tending thereunto. Leo saith thus, you aleo cap. 14 shall range the Archers behinde the reare of enery file according to the number \$ 69. of the file, (that is four elight for twenty fix armed, proportioning on Archer for every foure armed. Or if it be needfull, you shall order them within the files, an armed, and an Archer. Sometimes without the wings of the battaile; that is within the Horse. Oftentimes without the Horse a little distance, with a few Targetiers, to defend the vttermost slankes of the Horse. And this is to bee done, when you abound in multitude of light-armed. But those, that vse small darts, and iauelins, and fuch like are to be placed, either in the reare of the armed, or in the wings of the battaile, and not in the middest. The slingers are alwaies, to bee set in the wings. Thus Leoplaceth his light armed. But Elian here (as before in the seuenth Chapter) designeth their place in the reare, but so, that hee leaveth it to the Generalls cho.ce, and to the occasion of service to place them, as most besitteth. Being set behinde, us Ælians order is, they must answer the armed in number of files, & be directed by the files of the armed for their standing; that is every file of the light-armed is to order it selfe in a

of Ælian.

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right line after a file of the armed in fuch manner, as the armed are before embattailed.

Elian in the beginning divided the foote into three parts, Armed, Targetieres, and light-armed. To the armed he hath given place, and maketh the Phalange to confift of them, th. light-armed he rangeth in the reare of the armed, what shall become of Tage. tiers? for he speaketh not a word of placing them. By that Iread in Arrian I would think, they were placed among it the light-armed, and next to the armed. First because Elian saith, many number them among it the light. Then I (ee the Hypasspiss placed betwixt the Horse, and the armed in Alexanders sields at Granicus, at lisos, and at Gaugamels; Lastly Leo in the passage before recited, when he placed the light-armed without the Horse, he isometh Targetiers with them, for their safegard. Cyrus Iskewise placeth themnext the armed in the reare; and after them the Archers.

2 Yet shall they not be 16.] The file of the light-armed is leffe in number, then the file of the armed. For if they should be 16 in file, the number being but halfe to the armed, they should not be able to make aboue 512 files, and breeding there by a dispreportion both in placing, and corespondence one to an other, not equall the length of the Phalange. Besides standing eight in file, and in the reare, their slying weapons will bee sent with more force against, heir emenie; In as much as the sindermost of them are neerer the enemie by twentie source soote, which the last eight in a sile of 16 deepe take up. And missing weapons, the lesse their compasse is, when they are sent against a marke, with more violence they pierce. As they hurt not greatly, if the distance be too farre, from whence they once.

The names of the bodies of the light-armed.

CHAP. XVI.

Heir names and degrees are these. Foure files of light-armed are called ¹a Systasis of 32. men. Two Systasies a ² Pentecontarchy of 64 men. Two Pentecontarchies ³ a Century of 128 men. In enercy Century ought to bee 5 Superordinarie men: an Ensigne, a Resre-commander, a Trumpetter, a Serieant, and a Crier. Two Centuries containe 256 men, and are called ⁴11 Pislasy. Two Pislagies a Sensy of 512 men. Two Xenagies a Systremma of 1024 men. Two Epixenagies a Stiphos of 4096 men. Two Stiphos an Epitagma of 1024 files, \$192 men. These ought also to haue 8 Superordinarie men, whereof foure should bee Epixenagies, the other foure Systremmatarchs.

Notes.

A sthearmed were distinguished, and sewered into divers bodies in the Phalange, so are the light-armed, in whom there ought to be no lesse order, then in the armed. A multitude emligested bringeth with it disorder, and confusion. Neither can any service be expected from them, who by apt divisions are not cast into bodies sit for service. We have before spoken of the names of the bodies of the armed, and noted, that they were not imposed with such propriety, that they could be applied to no other thing. At the first warre was made, and men sought (as wild be after applied to no ther thing. At the first warre was made, and men sought (as wild be after applied to neither) led with surie, and rage, and not with skill: and he prevailed that was the strongest. Experience taught there were adminiages in Time, in Place, in Order, in instruments of fight, in placing of men, and

in other circumstances. Hence sprung the art of Warre, the divers formes of weapons, and the sigures of Bat'ailes. For the speedy framing whereof, the smaller bodies were invented, of which they confist. In building of a house, you surst bring timber together, and other matter, and then of it frame walls, dores, windowes, rasters, beames, and then took which mast be all conional together, before the fashion of the house will appeare: So in an army the production of men was sirst requisite, which being found, and brought together by Leavies, were armed, and after ordered into several bodies; and these being compasted together. Set out the frame and fishion of the Phalange. And as all things newly invented, stand in neede of mems to assert them from other things; So names were given unto the bodies not proper, and sit; but such as willtary wits thought convenient enough to signific the things they meant. I have noted it before in the names of the Tetrarchy, Taxis, Syntagma, and other, and it will appeare againe in this Rut hen





The Tacticks

the armed in such manner, as the armed are before embattailed ine divided the foote into three parts, Armed, Targetieres, and med he hath given place, and maketh the Phalange to confift of herangeth in the yeare of the armed, what shall vecome of Taretaword of placing them. By that I read in Arrian I would think. est the light-armed, and next to the armed. First because Alian mamongst the light. Then I (ee the Hypaspists placed betwire lin Alexanders fields at Granicus, at lifos, and at Gaugame-Mage before recited, when he placed the light-armed without the tiers with them, for their lafegard. b Cyrus likewife placeth he reare: and after them the Archers.

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CHAP. XVI.

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Notes.

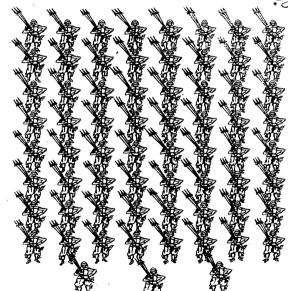
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Cap 16 The hight Armed A Pentecontarchy



ASyFasis









right line after a file of the armed in such manner, as the armed are before embattailed.

Æian in the beginning divided the foote into three parts, Armed, Targetieres, and light-armed. To the armed be hath given place, and maketh the Phalange to confift of them, the light-armed he rangeth in the reare of the armed, what shall become of Tage. tiers? for he feaketh not a word of placing them. By that I read in Arrian I would think. they were placed amongst the light-armed, and next to the armed. First because Ælian (4ith, many number them among st the light. Then I (ee the Hypaspists placed betwixt the Horse, and the armed in Alexanders fields, at Granicus, at lifos, and at Gauzamela; Lastly Leo in the passage before recited, when he placed the light-armed without the Horse, he toyneth Targetiers with them, for their safegard. b Cytus likewise placeth themnext the armed in the reare; and after them the Archers.

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in other circumstances. Hence frung the Art of Warre, the divers formes of westons. and the figures of Bat'ailes. For the speedy framing whereof, the smaller bodies were inverted, of which they confist. In building of a house, you first bring timber together, and other matter, and then of it frame walls, dores, windowes, rafters, beames, and the roof, which must be all contoyned together, before the fashion of the house will appeare: So in an Army the proutsion of men was first requiste, which being found, and brought incether by Leavies, were armed, and after ordered into feuerall bodies; and thefe being compacted together. Set out the frame and fashion of the Phalange. And as all things newly invented, stand in neede of names to asserne them from other things; So names were given unto the bodies not proper, and fit; but (uch as Military wits thought convement enough to signific the things they meant. I have noted it before in the names of the Tetrarchy, Taxis, Syntagma, and other, and it will appeare againe in this Chapter.

But here I may not pratermit the curiofitie of the Gracians in their appellations, and their plenty of Beach, apt to give diversitie to things, that are divers. For where there are howes, among st armed, and light-armed, which consist of the same number. and therefore, as it feemes, might well enough have beene comprehended under one name, the not withit anding to avoide confusion, and for perspicuities sake have thought good to call them by fundry names. Thirty two armed men are called a Dilochi; 32 light armed are a Systasis; 64 armed are a Terrarchie; 64 light armed a Pentecontarchie; 128 armea a Taxis; 128 light, a Secatontarchie. Our tongue will not afford such variety. For albeit in common speach we distinguish the kinde of souldier; yet confound we the name of the body, and of the command. A certaine number of Pikes under a Captaine we call a company of Pikes; So many hot under a Captaine we likewife call a company of shot. The Captaines, one a Captaine of Pikes, and the other a Captaine of shot. A company of Curacers of horse, we call a troope of Curacers; as many Argoleters, a troope of Argoleters. The Commanders of either of them we terme Captaines, the one of Curacers, the other of Argoleteres. But let vs come to particular explication.

A fystasis] It commeth of Synistemi to stand together: and asystasis is a standing together; which word albeit it may be extended to any kinde of people affembled, and fanding together; yet it is here appropriated to souldiers; and more particularly to 4. files of light armed, confisting of 32 men, 8 men going to the file.

2 A Pentecontarchie The command of 50 men. And soit was vsed of olde. But the Macedonian, gane 64 men to this command, and yet retein a the name, because it

was familiar, and nell knowne.

3 A Century] Elian estlethit à Hecatontarchie, the command of a 100 men. The name was viualibefore the Macedonians time, and it conteyned 100 men. But the Macedonians gaue it 128 men. This was answerable to the Syntagma among st the armed, and had the like officers. Yet whether it had a Captaine, or n?, may be some doubt; the rather because Elian in this Chap: nameth no Commanders, but Systrematarchs, and Epixenagies; and those he would have super-ordinary. For my part, I thinke they bad Centurions also. For as every body of the armed had a head, so I would thinke it requisite also amongst the light-armed, especially seing there was a Bringer-vp, and other officers belonging to a Company; which unlesse they had a Commander, would become enprofitable. For if there were no Captaine, to whom should the Crier, or Trumpet, or Sergeant of the Centurie refort for direction? Adde, that the light were often drawne to the winges, to the front, or other places of service, which could not be done without Leaders. For to put a Systrematarch, or an Epixenagie to lead a Century, were to leave the rest of the Centuries under them without a Commander. Besides, lib. 1. 270 D

exped lib.4.

322 D d Arrian, lib.

The Tacticks

the Macedonians were very particular in their commands, and left no body without a head; which is the cause of the multitude of Commanders in the Phalange. But they are a ofice 20 10 not here mentioned. No more are the Commanders of the horse in the disission of the bodies of the horse, and yet I thinkeno man will doubt, but the horsemin had Comman ders. Latty, I finde in the Græcian historie, Captaines of the light-armed often nab Xenoph de med. Epithenes is said to be Commander of the Targetires, in afight the Græcians had against the Pertians. 'Stratocles commanded the Cretan Archers in the returne exord Cvii, of the Gracians out of Persia. d Eurybates Captaine of the Cretan Archers in A. lexanders army was flaine by the Thebans at the flege of Thebes. "When Antiochus the Captaine of the Archers was dead, Ombito was chosen in his place. Mention is made alfoin Arrian of Clearchus the Captaine of the Archers. And when Alian e Arrian lib. 2 calleth the 4 Syltremmatarens, and the 4 Epixenages Superordinary (Ectactous) he might have faid as much of all the other Commanders. And he faith expresty of the officers of the Centurie, that they were superordinary (Ectactoi).

A Pfylagi | The word is a body of light-armed. Which word, if it were taken, as it naturally fignifieth, is common to, and comprehendeth all the bodies of the lightarmed, whereof Elian Speaketh in this Chapser. But here it is restrained to a body of light-armed, which compriseth 256 men, and 32 files, and so it is to betaken.

A Xenagie That is, a command of firangers. Elian before faith, that a Syntagma was by some called a Xenagie. I baue given my opinion there of the original of the word, which I neede not to repeat here; This onely I will note, that of all the bodies of the light-armed, no one bath a common name with the body of the armed, but onely the Xenagie. And Elian givesh also that body of the armed an other name, calling it a Syntagma. The Xenagie hath in it 512 men, and 64 files.

g Polyb.lib.1.

A Syfiremma] & It signifieth a conglobation, or trouping together. Proper names are wanting for these bodies, and therefore such taken, as might at any hand signific the thing meant. In continuance of time vie hath gained a passage, and made them to be accepted as proper enough. The Systremma conteineth 1024 men, and 128 files. There is nothing h Arrivalib. to be found in Elian of the Chiliarchie of the light-armed; Tes doth h Arrian mention 2 Chiliarchies of Archers in the Army of Alexander.

An Epixenagie | Acommand aboue a Xenagic; As afterward in the command of the horfe, there is an Ephipparchie aboue 4 in prachic. The word is improper and hard enough, but when it is received by what should we feeke for more? It conteins neth 2048 men, and 256 files.

A Stiphos] It is derived from steibo, to thicken, and in penury of another name, this body of the light-armed is called Stiphos, because they are thickned, and thronged

sozether. There is init 4006 men, and 256 files.

An Epitagina Is the last body amongst the light-armed. The fignification of Epitalle is to place behinde. From thence commeth Epitaxis, placing the light-armed in the Reare, which word is after weed by Elian. Epitagma is derived from the same fountaine; and it is called Epitagma, not of placing behinde, (for sometimes they were placed before, sometimes in the flanke but it was the best name they could give to the whole light-armed. And yet it may be, that because all the light-armed in auncient time were placed behinde, the whole masse was called Epitagma, as being placed after the armed in the reare. The Epitagma bath in it 1892 men, and 1024 files, for so many lightarmed attend the Phalange.

Eight superordinarie men Why these eight men should be superordinarie more than the reli of the Commanders, I conceine not yet. If Elians meaning be, that these alone Iball command the light-armed, historie and tractife of cancient times convince the

controry. Besides where he nameth foure Epixenagies, it agreeth with the number, that ere in he Epitagma of light. But where hee addeth foure Siftremmatarche more to make wo the number of the eight Superordinarie, it is hard to knowe . which foure hee meaneth, considering there ere eight Sistremmas in the Epitagma.

Now because the files of the light-armed are in embastailing to be marshalled to the files of the arme 1.1 though good to fet downe how the bodies of both agree by comparing them together is files not in number of men. For in number of men they cannot well soree, because the file of the armed hat more, then the file of the light armed. And the number of the atmed in groffe is 16384, of the light-armed but 8192. And I will first begin with the Systafis, because it is the least body of the light.

The bodies of the armed The bodies of the link

The sources of the armed,	ine bodies of the light-armed.		
A Tetrarchie	A Systasis,	4	files.
ATaxis	A Penticontarchie,	8	files.
A Syntagma	A Hecatontarchie,	16	files.
A Pentecosiarchie	A P (ilagie,	32	files.
A Chiliarchie	A Xenagie,	64	files.
A Merarchie	A(ystremma,	128	files.
A Phalangarchie	An Epixenagie	256	files.
A Diphalanzarchie	A Stiphos	5 Í 2	files.
A Tetraphalangarchie	An Epitagma	1024	files.

The vse of light-armed foote.

CHAP. XVII.

Arters, Archers, and all other, that vse flying weapons, are good x to begin the fight 2 to prouok the enemie, to breake and shatter armour, 3 to wound, annov, and beate downe a farre of; 4 to disaray the enemy, 5 to repulse their herse, to beat in their light-armed,7 to discouer suspected places, and to lay Ambushes. Lastly these first undertaking the Skirmish, and continuing it with the rest, and feconding them, and feruing 8 for speedie, and farre-of-attempts, worke many, and great effects in fight.

Notes.

He arming, place, filing, bodies, and command of the light-armed are hitherto handled: Now followeth the ve, and (eruice they performe in the field. And first wee areto thinke of the bodic of an armie, as of the body of a man, that is compact of severall parts: Of which some parts are of more wse then other, some being able to performe their function without tre helpe of the other, some except the other heip, can doe nothing to purpose of themselves. The parts of an armie are like. The armed are the strength of the field, and are the refuge for the rest in extremitie. The light toyned with the armed, worke great effects (the lewhich Allan feaketh of in this Chapter and many more) without them they cannot so much as maintaine a place in the field. 2 And as Xenophon saith, a Xenoph.Cy-Let them be neuer so many in rumber, yet dare they not stand or abide a sewe too. 166. 7. armed. In which respect, a place fit hato alwaies beene sought for their service, to secure them from the accoffe of the Harle, or of the enemies armed. Which place was either be-

c Arrian lib.

hinde the Phalange (as Elian here would have it) or elfe in the wings betweet the Horse, and the armed, or if they skirmished loose before the front, and chanced to bee presled with the enemy, they retired into the internalls, and conneied themselves bebind the bleo can 14 Phalange in lafetie. Leo laith, if there be any place of strength, it will much helpe the light-armed. For after their flying weapons spent, reciting thither, they will be in more securitie, as a steeperockie place, or the bancke of a river, or a high hill, or such other. Our stories report, that at the battaile of Agincourt in France 200 English Archers were bestowed in a meddow fenced with a deepe ditch ; from whence they lo gauled the French horse and foot, that they were a great helpe to the wictorie. The like happened before at Poitiers, where that braue Prince of Wales eldest Conne of Edward the third having to fight with the whole power of France under the leading of their King, gave (afegard to his Archers, with hedges, and ditches, and other strenoths. So that the French-horse having no accesse to disorder them, were overwhelmed with the tempels, and sormes of their arrowes, and such a victory obteined by our nation, as might match the most renowmed of all antiquitie. To say nothing of the invention which Hentie the fith Sed against the horse of France for securing his Archers. The storie saith. he devited stakes of two yards long, and armed both ends with pikes of iron, the one to flicke into the ground, and the other to gall, and enter the horses bellies, in case they came to charge our Archers home. By meanes whereof he caried the famous victorie of Apin-COURT. This for the affurance of the light armed, when they come to fight, without which assurance, their service would be weake, and scarce worth the having. Their service then according to Alian bath many particulars. And they are good to

Prouoke the enemie I if the enemie be in a wood, a fenne, a hill, a fort, a towne, or other place of strength, that admitteth no accesse, the minner hath beene to send out the light armie to shew themselves, and with a Brawado to towle him out of his advantage, and bring him into the field, where he may more cafily be dealt withall. Examples are plentifull, but I will content my selfe with a Macedonian example. Alexander leading his armie against the Triballs, that had hid themselves in a wood, commanded his Archers, and Slingers to runneout, and to shoote, and sling amongst the Barbarians to see, if he could to wle them into the plaine. The Archers, and Slingers spared not to let sie, and the Triballs being wounded with arrowes, threw themselves out of the wood with all speed, to fall upon the unarmed Archers. Alexander presently commanded Philotas with the Horse of upper Macedonia to charge the right wing; on which part they cast out themselves surthest. And Heraclides, and Sopolis with the horse of Eottiea, and Amphipolis the left, himselfestretching out in length the Phalange of foote, & setting the rest of horse before the Phalange, led against the midth of the enemie. As long as it was but a skirmish, the Triballs had not the worst. But after the Phalange close serred came vp roundly to them, and the Horsemen charged them no longer with darts, but preffed, and ouerbore them with their horie, they fled thorough the wood to the riner.

d Leo esp. 14. To beginne the fight] d Leo agreeth. If, faith he, we have light-armed enough, Sion Decad. let them, before the armie joyne, fend their darts, and arrowes at the enemie, and 5.16.2 39.B. after the fight of the armed is begunne plie the flanke with their missiue weapons, that at ouce both their flankes may be affaulted. It hath beene and is now the ordinarie course to beginne the fight with the light-armed. And because wee shall read of no bassaile almost wherein it was not so, I will forbeare examples.

To wound a farreof The light ferue to great purpose, if the Generall desire not to come neere to fight, but seeke to annoy his enemie a farre of without danger of his owne Lindecot. 4. folkes & Liuy telleth of Cn. Manlius Volfo, that being to make warre against the Gallo Græcians.

Gracians, that fled into the mountaines, and awaited the Romans there, and fought to defend themselves, by advantage of the place, he prepared great plenty of darts, arrowes, bullets, and (mall stones for Slinges: and leaving his legionari fouldiers behind, led his halt armed, against the enemy, that possessed certaine straights, by which his armie must pafe. After some fight the Gallo-Gracians being not sufficiently armed, to d fend their bodies from the missine weapons, the light-armed of the Romans forced the passage. And following them even to the Campe, where their Companions came to their aide, they first drove them into their Campe, and after the Legion irie Souldiers comming up, they wonne it. I have before rehearfed the historie of Iphicrates, who with his Targetires (that came (eldome to hand blowes but plied the enemie with dar s a farre of) oner threw and lewe a whole Moira of the Lacedemonians. The Acarnans, likewife with this kinde of fight, much incumbred Agesilaus, that made an excursion into their Countrey. The flory is this, Agefilaus having taken a great prey, in the territory of the Acarnans, exenoph hifrested that day, where he had taken it, being busie in selling of it. In the meane time many 513. D. Acarnan Targetieres assembled themselves together, where Agelilaus was incamped vpon the side of a mountaine, and with darting and slinging, they forced his Campe to descend to the plaine, themselves in the meane time being free from hart. The next day Agesilaus led away his armie. The passage out of the place was straight, by reason of the mountaines lying about in a circle, which the Acarnans possessing, plied the Lacedemonians with darts, and stones, from the higher ground, and sometimes descending to the skirts of the hills, they pressed the armie fo, that it could not move forward. And when thearmed, foote, or horfe, fell out oponthem, they profited little : For the Acarnans retired immediately, to their strength. Agestlaus perceiving it would be hard for his armie to winde out of those straights, so long as the enemy so hung vpon them, resolued to charge those on his left hand. For the ascent on that side was more easie, both for his horse, and armed soote. Commanding therefore, his men to charge, the armed (of 29 yeeres of age) first fell on, and the horse after them vpon the source. Himselfe followed with the rest. The Acarrans therefore, that were descended, and busie a darting, were quickly put to flight, and many flaine in feeking to remount the hills. But their armed foote, and most of their Targetiers, stood imbattailed on the toppe, and from thence both threwe other missiues and lanced lauelines, wherewith they wounded horsemen, and killed some horse. But being ready to be charged by the Lacedemonian armed, they fled, looting fome 300 in the flight. Thefe light-armed then, as long as they can keep alsofe from the enemie, annoy them fore by wounding (as E ian faith) a farre of; as soone as the armed come up, they are glad to quite their place, and faue themselves by flight.

4 To difarray | So long as a battaile remaineth in order no victorie is gotten against it. Breaking of array, and disbanding, are companions of flight, and of for aking the field. The armed, that are to endure the efforts of the light armed, must either keepe still their order, and suffer themselves, to be knocked downe, and staine, as they stand, or else provide for themselves, by flight, or by reelding. For the light-armed effect with their missive weapons the one, or the other. An example may be seene in the Egyptians in exenoph. Cy-Cræsus his battaile, who after the defeate of the rest of the armie, maintained yet the fight, and recided not to Cyrus, though he had now the victorie. Cyrus at the first charged their backes with his horse, and being not able to breake them, was faine to command his Archers, and darters, to shoote and cast their darts at them: whirby the Egyptians after many wounds, and losse of their people, were finally confirmed to yeeld. A like example is before alledged f of Domitius the Lieutenant of L. Scipio, who with missue f Appian in Wesponsalone forced the Macedonian Phalange to featter, and take them lues to flight.

armed or elle some place of trength, can are little in repulsing of horse. I have shewed I Consider before in the exploite of Craffus into Purfia, how the lightarmed were beaten into the Perlian horse, and by the shew of wounds, they received, and with their feare, discoue Plucin Ant, raged the armed. The like happened in a Antonies retreate out of Perlia, the lightarmed being faine to shroude themselves from the Perlian horse within the Phalange of the armea. Be they never (o many without (ome juch affurance the horfe will foon overrunne them; having this affurance their feruice much afflicteth borfemen both in woun. d Lundows 4. 4. ding them, and in killing their horfe. I herefore of ancient time it was visuall to minole lib. 1.16. A.B. horfe, and light armed together. For the enemies horfe fo charged, cannot be able to ree thir used beil, ancian, fift both. Anotable example is in . Hirtius : Cæsar, saith hee, having a journey in hand, and but a small number of Horse, and legionary Souldiers, was in his way fer youn by the enemie abounding in store of Horse, and of light armed Numidians amongst them. And when the Souldiers of Casar fellout to charge, the enemies horse galloped away, and the foote stood fast, till the Horse with a full carrearereturned to the refeue. This kinde of fight troubled Calar much, and would have troubled himmore, had bee not recovered hills, that were not farre of, and by that meanes (baken of the molesting enemy. And for repulsing horse there is no better meanes

for the armed foote, then with the light armed to line that part of the battaile, where the horle hall be about to give on. 6 To beat in the light armed The light armed being nimble and quick, and feeking alwaies advantages by changing of ground, can never be forced by the armed foote. (who are charged with heavie furniture, and by rea(on thereof can make no speed) to seeke succour in the battaile of their armed. Either they must be beaten in by the horse or by the contrary light armed, as Ælian bath heere. The Horse are commonly to encounter with Horse, and the light-armed with light-armed, among st whom the greater number preuaileth, their skill, and armes being alike. For the fight being a farre of, many will

f Xenoph. Cy-fooner wound, or kill a few, then a few many, faith f Xenophon: If the fight bee at rop.lib. 2. 39.E. hand the better armed, or better minded will drive the other out of the field. The 3 Roman Horse, and the light-armed, were too bard for the Macedonians, and chased them to their Campe. And that happened by reason their armour was fitter to close, and to fight at hand. So our Archers at the battaile of Crestly compelled the Genua crossebowes to for sake the field, the english bowe being better in whe, then the Genua croffe-

lowe. When they have made the contrary light armed to quit their place, they are at liberty themselves to serve where most advantage may be had of their service.

7 To discouer suspected places, and lay ambushes \ Suspected places are such for the most part, as ambushes are laid in. Ambushes are of two kindes, being laid either to endamage the enemies battell in the field, or to hinder, and disapoint his march. The places, such as are removed from fight, and had neede of special discovery. As woods, mountaines, forrests, rockes, banckes of rivers, caues, hills hollow, and deepe waics, and the like, The most part of which are rough, and intricate, and scarce passable for the heavy armed, and horse. But the light armed that are not incumbred with weight of armes, & able quickly to advance, or retire, are fittest to be close in such places, or to search if the enemie be love at here. For the first kin de of Ambushes wee read, that both heavy armed, and horse hancbeen imploied. The warres of Anniball in Italy afford plenty of examples herein. For the other, which is to b fet or discouer wates, there are none fo fit, as the light armed, whose quicknes, and expedition, quieth then adulantage to a fault their enemy with their mi fine weapons, thought' eground be never four equal, and meanes to view any place sufferfed without almost any danger of their owne.

. in Front

S For

8 For speedy and farre attempts] A heavie armed man is not sit for sure or suddaine attempts; he is armed for a surme and steafast signt, and not for concursations. Alexander, when some rhe was to referendent, tooke with him the horse and light-armed, leaving the armed to come after. So did he, when he oppressed Clytus, and Glau- a Airian lib.i. cias in their campe. So when he possessed the strengths of Cilicia; sin pre-7. D. uenting of the burning of Tarsus; I so in seeking to take the straights of the Vians, s. E. and the gates of Perlia and the rocke of Aorine. The same hath beene the manner of a Airian lib.i. other Generalls, as I have noted in other places. For when Celevity is requisite, who so fit a Airian 1.3. A light target, and a strey who have nothing to hinder their speed? The Targetiere had but 64 H. and arrowes, darts, and slings, which have no weight in them. Swhich was the reason show, as also, that in victory they were imployed in giving chace to the enemie, that had loft the special light armed year for summed of a sum and armed years following ood order of battell, the slaughter, and execution in sphicrate was heliaged to the light armed, and horse. Wherein notwithstanding the compsell of s. Inhiparates was held good; take heede (said hee, to his light-armed) of ambushes, h kenoph de and spare not to presse hard vpon the reare of those, that slie, till you come to lib.1.265.B. rivers, or straights, or dirches. For it is dangerous in such places to hinder the e-lib.7.416.A.B. nemies slights, least feare turne into desperation.

The falhion of Horse-battailes: and first of the Rhombe; the Wedge, and the Square.

CHAP. XVIII.

Those, that have written before mee, have diversely framed Horse-battailes, some of inst squares, some longer in stanke, then in front, some like a Rhombe, some like a Wedge, but none of them have (if I may speake freely) expressed fully their owne conceits. Therefore to make all things cleere, and better to be evnderstood, I will set downe the several figures of each several kinde.

It seemeth the The states who see power was great in Horse, were the first, that yield the kinde of battaile a fashioned in forme of a Rhombe (the inuention whereof is attributed to Inson) as fittest for all encounters; The Horsemen thus ordered being ready to turne their faces every way with speede, and not easie to bee surprised in stanke, or in the Reare. Because the best men stand in the stanke, and the Commanders in the Angles, as namely the Captaine of the troupe in the front, and in the right, and less Angles those; that are called Flanke-commanders, and the Leiutenant in the Reare-angle.

3 The Soythians, and Thracians have vsed Wedges, and likewise the Macedonians by the ordinance of King Philip. For this kinde of battaile was held of mor exact vse, then the square, because the Commanders are placed in a circle; and confisting of a narrow front, it maketh readie passage thorough any distance, and an easier wheeling and returning to the sirst possure; as having no such troublesome windings about, as hath the Square.

4 The Persians, and Sicilians, and most Gracians made choice of Squares, being of opinion they were more easie to frame, and fitter for ioint-mouing of the Horse, and more effectuall in vie. For they are sooner in order being digested

histor, lib. 7.

cap 56.

into files, and rankes, and in this order alone all the Commanders fall vpon, and charge the enemie with one maine force. Those are best Squares, that double the number of the length to the number of the depth. As when there are eight in length, and foure in depth, or tenne in length, and fine in depth. Thele in number are of vnequall sides, but in figure foure Square. For the length of a Horse from head to taile compared with his bredth requireth more men in rank, then in file [to make vp the Square] Some allow thrice as many in length, as in depth, and thinke by that meanes a perfect (quare may be formed : because for the most part, the length of a Horse seemeth thrice as much, as the bredth betwist his shoulders. Therefore they give nine in front, and three in flanke. For a multitude of Horsemen yeeld not the same advantage behinde, that soote doe, when in the depth of the Battaile they jointly thrust on; in as much as the Horse helpe nothing to the settlednesse of fast resistance, being neither able to thrust those forwards, that are before, nor yet to linke, and knitte with them, and so to make one weight, as it were, of the whole body; and in case they presse vpon the formoft, by disordering, and distempering their owne Horse, they annoy themselues more, then the enemy. Therefore it alwaies falleth out, that when there are as many Horse in length, as in depth, a Square of number is made, but the fides of the figure are vnequall, the depth exceeding the length in proportion: but when the figure of the Troupe is Square, the number of the sides and front, is vnequall.

Notes.

Nihe second Chapter of this booke, the armie was divided into two kindes, footemen, and Riders. Footemen againe into three, armed, Targetieres, and light armed. Of these three is bitherto treated. Riders follow, who either vsed Horses, or Elephants. Horses either alone, or else in Chariots. Of these Elian treatesh senerally bereafter. For the arming, and place of Horse in the fielde, hee hath sufficiently spoken already. The following discourse is: First, of the manner of embattailing horse (wherein he setteth downe the diversity of vage in ancient time) Then of Chariots, and lastly of Elea the natural phants. 2 That a horse is a kinde of beast, that loves man, and is most faithfull unto him Pliny testifieth. The vse of him is for carriage, and for service in the field. And in the service of the field an armie without horse, is in a manner no armie. Iphicrates (as I have (aid before) comparing an armie to a mans body resemble th the horse to feete. And as the body bath no power of moune, or rather remouing, the feete being lame, or taken away. So is the armie flow, and whit for expedition, that is destitute of horse; and may be well resembled to those beasts, that creepe upon their bellies, whose greatest hast is with little speede. The horse do great service in the field of themselves alone; and are principally imployed in matters that require quicknesse in dispatch. Therefore are they fit for discoueries, either of the enemies country, or of his campe, or of his marche, or of other things, whereof the Generall defires to have notice. And not for discoveries alone, but to spoile, and destroy, what soener the enemy hath growing, to make prey of his Cattle, burne his houses, kill bis people, surprise his places of strength, and to embarre him from doing the like to vs; to bring and conung proussion for our Campe, to (but in the enemie, that he goe not out his campe for like causes, to hinder the enemies march by falling on the reare. Briefely all expeditions of celeritie are for the most part delivered to the horse alone. Especially as long as they are in such places, as give them liberty to go on, or retire at their pleasures. Tet are they often iogned with the light armed, as I have shewed. They often ioine likewije

likewise with the armed. 2 And if they may come to charge the enemies battaile in the a Diod. Sicul. flanke, or reare, at such time, as our armed charge in front, they endanger all. But for 1b. 16.512. imployment alone against the armed foote many examples of former times show, how Pollib ?. weake there force is. b And how little they preuaile (especially against armed, that are 5 Hirtus de practized in fight, and resolute Souldiers) The examples I have quoted in the margent bell African. make the matter cleare. For jurther confirmation I will fet downe Xenophons opinion, Xenoph de which all be it, it were delivered concerning the Persian horse, that came against the arm- lib 3.309. B. ed foote of the Gracians in their return out of Perfia, yet the reason stretcheth to all horse flui in Anion ingenerall. His words found thus: " If any of you faint in minde (faid he to the Græ- 164. cians) because we have none, the enemy many horse, lethim consider, that ten e Xenoph de thousand horse-men are no more, then ten thousand men. For no man was euer exped Cyrlis. flaine in battaile by byting, or firoke of a horse: Men they are, that performe, whatsoeuer is done in fight. As for vs (the foote he meaneth) our mounting is much more firme, and stedfast then theirs. They hange vpon their horse, and are in feare not onely of vs, but to be shaken of and throwne to ground. We contrariewise haue stable footing, and shall be able both with great assurednesse to strik, and direct our aime with more certainty. One aduantage the horse-men have, they may more securely runne away. Hitherto Xenophon. And so much is sum-

marily spoken of the service of horse.

The Thessalians, whose power was great in horse The Thessalians inhabiting about the mountaine Polius were the first, that fought on horse-backe, and were therefore called Centaures. When they matered their horfes in the river Peneus, the bor se heades stooping to drinke made the unskilfull multitude, who saw the bodies of men ioyned to the shoulders of the horse, conceive, that the upper part was man, and the neither Oxe. For it should seeme horse were not so well knowne then , as Oxen, with which they laboured and plowed their land. The Poets therefore fained, that they were monfters compounded of two diners natures, man and oxe, or bull; and that Centaurus, the beginner of the race was begotten by Ixion upon a cloude, which was figured like Iuno. Howbeit Seruius geneth a better originall of the name, saying, that certaine servants of a Thes-Salian King seeing their masters Neate, raging with the Brimse (a flie that biteth cattell) got a horse backe, and pricking them with goades, reduced them to their stables; and that they were after called Centaures, Para kentein tous taurous, of pricking the neate. The great Etymologicon giveth yet an other beginning of the name. For where I have faid that Centaurus was begotten by Ixion upon a cloude, which was figured like Iuso, with whom Ixion was in love : The Etymologican faith, the fonne of Ixion, and of the cloude was called Centaurus : Apo tou ton patera autou kentein ten auran. But d Diodorus Sicul. reporting the historie of the Centaures Beaketh net d Diod Sical. of Centaurus, the father of the race but faith not withstanding, that they were bred of a cloude, and that the Nymphs brought them vp, and that they were the first horsemen, and therefore called Hippocentauri which gaue occasion to the fable, that they had two natures. It is generally agreed, that these Centaures were Theffalians, and that they were the first horsemen, that are mentioned in any history. And as exceeds hist. they were the first, so by reason of their long practise they were accounted the best, the Grac. lib.7. most valiant, and the most expert horse-men of all Greece, even to the time of Philip, 644. D. Sonne of Amintas King of Macedonia, who conquered all Theffaly (Saith Inftin)not 633.C. of desire to make himselferich of the prey of that Country, but to winne to his g Diod. Sicul, armie the strength of the Thessalan horsemen. Whose service he vsed afterward & 594-in all his war. Weither did they less escribed by some 5 Alexander in whose greatest Pourach, in mail nis war. Weitner at a trey teye jerunce so the journe o Michaille spo wrote straines halfand.

battailes their vertue clearelie appeareth, and is especially commended by histories. h Pyr-Alexand.

hPint.in Pyrih.

e Platorch, in Agefilao. Xcnoph. H.ft. gize lib 4.

b Enclyd. lib.

thus alfo, principally by their valor, put the Romans to flight. Agefilaus returning out of Asia towards his Countrey led his armiethrough Thessalie, and being much incumbred in bu march by the The Talian borsemen, that were his enemies, hee charged them and overthrewethem, and pleased himselse marvellously therein, because with troupes of horse, which himselfe had raised, and disciplined, hee had ouerthrowne the Thessalians, that were (sath Xenophon) so highly renowned for horsemanship.

2 Fashioned and torme of a Rhombe | There are three kindes of borse battailes mentioned by Elian, the Rhombe, the Wedge, and the Square. And the square is either a suft, [quare, or longer in flanke then in front, or in front then in flanke. The Rhombe was the invention of the Theffalians, and in that forme they volually fought. But where be maketh lafon to be the inventor of it, he afterward expoundeth his owne m aning, attributing the invention to lleon the Thessalian (from whom also it was tearmed le) but the chiefe practife to lason. Euclyde defineth a Rhombe in this fort : A Rhombe is a square figure, that hath the sides equall, but the angles not right. That is, the foure fides of the (quare are of one, and the same length, but the points, which make the angles, are two of them stretched out in greater length, and become more sharpe. two of them brought marrower together, and made more blunt, then the right angles of a Tetragonall (quare. See the figure. It is the same figure in a battaile, that at this day we call the Diamond battaile, which is (ometimes practifed among st the foote for flow). and exercise sake, but among # the horse I have not seene it practised. And as the square gorbto charge with all the fouldiers, that stand in one of the sides, that is with the front. (for the front u but a fide of the square) (o the Rhombe chargeth with one of the points. which is the front of the Rhombe. Whether of them is of most wie in the field . I am not to determine. For the square standes the practise of our daies, besides the vsage of the Persians. Sicilians, and most Græcians, as Ælian faith. For the Rhombe the Theffalians alone (which not with standing were acknowledged the best horsemen of Greece) unlessewe allow the Wedge for a parcell of the Rhombe, (a Rhombe being but a double Wenge; as making two wedges, when it is divided in two) and then have wee for the Rhombe not onely the Scythians, and Thracians (both nations very good Horsemen) but King Philip Amintas sonne, and Alexander the great, and bis successours. Either of both formes have their reasons. For the squares they, that we them, beld opinion (as Elian faith) that they were easter to frame, and fatter for joint mouing of horse, and somer in order of file, and ranke, and that the Commanders wintly charged the enemy, which in no other forme could be done. For the easinesset of rame I see no great difference, onely custome, and wee must in every forme, yea in the squares themselves make the borseman ready to know, and take, and keepe his place. The same may be said for the ioint moouing of the horse. Now to file and rancke is commen to the square with some Rhombes, and as some done in the one, as in the other, the number of the troupe being once knowne, and enery horseman having his place assened, and the forme resolved upon , into the which it must be cast. For where there are 4 kinds of Rhombes, one, that fileth, and ranketh; an other, that fileth, but ranketh not; the third, that ranketh, but fileth not; the last that neither fileth, nor ranketh (as Elian teacheth in the next Chapter) The first will finde no more difficultie, of fing, and ranking, then the square, the two next albeit the one ranke not, the other file not, yet the want of filing, or ranking hindereth no more the readine se of framing them, then the wfe of filing, and ranking helpeth the other. The fourth is rathey curious then profitable, as I take, neither doe I finds example of it. And it may bee truly affirmed of it, that the square is much essier to be falbioned. We shall have occasion to speake of the last three in due place. Touching the toint falling on of the Commanders, I confesse the advantage is great. For when the best men (such as the Commanders ought

to be) altogether fall upon the enemy, they are very like to put hard to them. And as it is a great part of skill to bring many hands to fight, so is it no lese, to bring the best hands to fight. Many hands make ugut worke, the best hands sure worke. Now for the Rhombe Elian alledgeth these reasons. First, that it is fittest for all encounters, because the horsemen are ready to turne their faces enery way with speed. Then, that they cannot be surprised in flanke, or reare, having the best men in their flanks, and the Commanders in every point of the Rhombe. And cannot the square turne faces every way? They can, but not with the same advantage. For the Rhombe, which way focuer faces are turned remaineth in the first forme. And whether it be to the right, or left flanke, or to there are, it keepeeb flill 4 even fides, and the men of most service in the sides. Besides that one point alwaies affronteth the enemy. Not wilke a Calthrop, which how soener you cast it to the ground, hath one point bearing right up to wound the horfes feet: But the square in turning faces to either flanke altereth the forme of the front. In a broad square, the front at the first was longer than the sides, faces being turned to either stanke the sides become longer, than the front; contrariwise in the Herse battaile. Besides in such turning of faces the square leeseth the advantage of embattailing, the Commanders, that flood in the front, flanding now in one of the flanks, and being not able to charge the enemy jointly, (the greatest advantage of that firme) and so the from being without Commanders, is subject and in danger of surprife, where the Rhombe, which way soeuer faces turne, hath as many Commanders in the front, as at first. But let vs take the borse square in full strength with all Commanders in front; whether shall that forme be better, than the Rhombe? I dare not affirme it. For where there are two kindes of fight; One with maine force, the other with fleight, and Art; in the first I will preferre the square, in the last the Rhombe. The square for flaughter and violent overthrowing, the Rhombe for piercing, and artificiall breaking the enemies battaile, which last among st great Commanders hath alwaies beene accounted the best kinde of winning. In the square all the Commanders fall iointly upon the enemy, and because they are supposed to be the cheife of the Army, in all likely bood they will overthrow the formoft and flay many. Tet by reason of the length of their front, they sticke man to man, and can make no farre entrance, and the victoric hangeth doubtfull, till they have flaine the most of them, that resist, and so make the rest to flie. The Rhombe contrary-wife, being narrow, and pointed in the front, first forceth a passage with the point, which maketh way to the rest that follow, and then without great labour piercing further, and further, breaketh the adverse battaile, or disperseth, and putteth them to flight, and after doth execution at pleasure. Neither can I make a fitter resemblance, then by comparing the 2 figures, one to an axe, the other to a wedge, both instruments veed for dividing solid masses of wood. For the axe, albeit sharper, than the wedge, ret baning the edge drawen out in length, can not by any strength be driven farre into the wood but by doubling many stroaks, and by much labour commeth as last to divide it. The wedge contrary-wife, though not so sharpe, being once entred, insinualeth it selfe more by litle, and litle with the narrownes of the point, and maintayning the hold it first got, at last forceth it asunder, though it beneuer so tough. So is it in the square, and Rhombe: whereof the square beginneth, and endeth with violence; the other vseth first cunning, and mildenes, as it were, to enter: being once entred renteth a peeces, and disparteth all that standethin the way. The manner of our times alloweth not of Rhombes; Experience of former times highly prized them. I will infist upon the Thessalians alone, who are accounted the inventers of the Rhombe, ir fought alwaies Rhombe-wife. Polybius had Seene their service, and beene Generall of the Horse in his owne country, and therefore able to iudge. He giueth this censure of them; * that in troupes, and being imbattai- 2 Polyb. bb. 4. led, they could not be refifted: to fight man to man in fingle combat, they had neither will, nor courage. What then foould be the reason, they should be so powerfull in troupes? Na other, then the forme of their imbattailing, which forme was the Rhombe here mentioned by Elian. In this forme they commonly beat the Græcian, and Perlian

fourres, and out the reputation of the best horsemen of Europe.

The Scythians and Thracians vied the wedge] The Rhombe is of 4 fides. the wedge but of three: and halfe a Rhombe maketh a wedge, as will be shewed in the next Chapter. The wedge was vsed by the Scythians, and Thracians, and whether King Philip of Macedonia borrowed it of them, I am uncertaine. But I rather incline to thinke, that his Theban Master taught him as well the wedge, as other formes of b Dioder See battailes. The cause of my coniecture is, for that I finde that his b fellow scholer Epa-Kenophon Last minondas beat the Lacedemonian horse at Mantinæa in that forme. Kenophon recounteth the storie to this effect: The enemy (they were the Lacedemonians) ordered their horse like a Phalange of armed in depth, without mingling soote with them: But Epaminondas made a strong wedge of borse also (for before he tells the Theban armed were cast into a wedge) and joyned some foote with them, conceiuing after he had cut in peeces the horse, he should not misse of ouercomming the other forces of the enemy. And so going to charge he was not deceived of his hope. Thus Xenophon. Of joyning horse and light armed together, I have soken before: d Dio l. Sicul. April that they were light-armed that Epaminondas toyned to his horfe, d Diodorns lib.15 pag 502. Siculus sheweth. By Xenophon then it is plaine, that not onely the Scythians, and Thracians, but the Gracians also, when they thought it convenient, vied the horsewedge, and that Epaminondas ordered both foote, and horfe in a wedge. And confidering King Philip was brought up in Epaminondas his Fathers house, and made partaker of the learning wherewith Epaminondas was instituted; it is like in erecting a new military discipline amongst the Maccoonians, as he tooke many other things from the Gracians, (o be borrowed this forme, having first leene the notable effect thereof

Now Elian bringeth reasons, why the wedge was holden better than the square. Let me with leave adde a word or two why I take it to be better than the R hombe. And first it cannot be denied, that the wedge having the same manner of disposition that the Rhombe hath, that is a front ending in a point, where the Captaine standeth; two points of the two flanks, where the flanke-commander stands, the Lieutenant in the reare, and the best men in the slanks, but it must be as powerfull to open the enemies battaile, as the Rhombe is. Then it hath this advantage of the Rhombe that it bringeth more hands to fight. For let the Rhombe and wedge be framed of an equall number, the wedge in figure resembling the forepart of the Rhombe must have the horse that should be ranged in there are of the Rhombe, orderly couched within the 2 sides thereof: where by both the number of the horse in the sides is increased, and the bulke of the body betwixt flanke and flanke inlarged. And seing both the Rhombe and the wedge goe to the charge with the point of their front, the wedge both hath the property to pierce, and enter the enemies battaile by art, and fleight, as well as the Rhombe, and doth it with more strength, because of the great number of hands in the sides, which all come to fight. Ione, that the hinder part of the Rhombe ferueth onely to avoide surprizes, and worketh nothing in charging. For after the two flanke points are entred, the reft of the Rhombe erowing narrower, and narrower toward the Reare, falleth further off from the enemy, and is conunt onely to follow the way, that was made to hand by the front, and flanks; without being able to strike a stroke; especially if it preserve the order it ought to keepe: whereas all parts of the wedge are effectual, the point to enter the fides even to the flanke corners.

where

where the Reare endeth, to dispart and disseuer; and finally to disorder the enemy, whereby the victoric ensueth. And if we may rely upon authority, the authority of King Philip will (way much for the wedge. For valeffe he had held it better than the R hombe, bee would not have chosen, nor accustomed his Macedonians toit, nor Alexander after reteined it. if he had not beene of the same opinion. Neither aid the euent acceive them; for almost in all battailes their borse thus disposed carried away the victorie. But, as Ibeforenoted, neither Rhombe, nor wedge have found grace in the eyes of the great Generalls of our daies, nor can we tell what to infist upon, till experience bath taught, born well these formes will agree with the weapons, and service of our moderne warres.

of Ælian.

The Persians made choice of squares] The square is the third, and last forme of horse-battaile that Elian mentioneth; whereof there are three kinds; one with a larger front, then flanke; an other with a larger flanke then front; the third, with front. and flanke equal. All these three were vied among st the Persians, and Gracians. For two of the first. Xenophon may witnes. When Agefilaus, after Tiffaphernes (the King of Perlia's Lieutenant in part of the leffer Alia) had broken truce with him, made an incur ston into Phrigia, h Xenophon telleth, that the rest of his iourney was with- h Xenoph.Hift. out impediment, till he came not farre from Dascylium. There when his horse-grac lib. 3. men galloped to a hill to discouer the country, by chance the horsemen of Phar- 498.D. nabazus (an other of the King of Persians Lieutenants) being about the same number that the Græcians were, and sent by Pharnabazus vnder the command of Rathynes, and Bancaus his bastard brother, galloped vp the same hill, and discouering one the other no further of, than two parts of a furlong, at the first they flood still; the Græcians ordered Phalange-wife 4 in depth, the Barbarians making their front 12 in length, the depth many more. Afterward the Barbarians began first to charge. when they came to hands, all the Græcians that joyned, broke their states. The Persians having Corneil darts killed some 12 horsemen, and 2 horses. Herevpon the Gracians fled. But when Agesilaus came with the Armie to the reskew, the Barbarians againe for sooke the field. The Persians then vsed a square longer in flanke, then front: The Grecian a square longer in front, theu flanke. But which of the three squares is most to be esteemed Elian sheweth in the words

following, saying those squares are best, that

5 Double the number of the length, to the number of the depth \ What the length, and depth in a battaile are, we have seene before. Tet to understand Elian the better, let vs repeat, that the length of a battaile is the extension of the front; the depth the extension of the flanke. To double then the number of the length to the number of the depth, is to place twife so many men in front, as in flanke. As for the purpose, 6 in front, 2 in flanke; or 8 in front, 4 in flanke; or 10 in front, 5 in flanke. And that this was the manner of the Lacedemonians appeareth by the Oulamos, or horse-troupe i Phurachin instituted by Lycurgus, which was figured Tetragonally with 4 equal sides, and con-Lycurgo. teined in it 50 horse. Now that it could not be a square of number, that is, to have as many borse in flanke, as in front may hereby besbewed, because no square number will make 50. The nearest is 7 times 7, which amounts to 49. But proportioning the number of the length double to the number of the depth, that is 10 in front, and 5 in flanke, even 50 will arise. So that the horse troops of the Lacedemonians had the number of the length double to the number of the depth, and made a square in the equality of measure of the sides, not in numb r, which is the Tetragonall figure, whereof Plutarch peaketh. And where Xenophon (as I have alledged before) reported's that the hor (emen of Agesilaus mere but a in depth, it hindereth not this truth. For, as I noted before, the ordinary aray of the Lacedemonians foote was 8 in depth. Yet did Pausanias the Lacedemonian

k Leo cap. 12.

9.40.

King cast his men into a deepe Phalange against Thrasibulus. Other examples Thane of. ledged in the same place touching the same matter. Besides this appeareth to be but a sumultuous fight either of the parties comming foddainely in the fight of the other, and going presently to charge, before they could have time to alter the order they then were in-And to lay the horse troups of the Lacedemonians ought to have beene but 4 in depth. it must thereof necessarily follow that they were 12 in length, which yet will com: (bort of 50: A times 12 makes but 48. Indeed & Leo holdeth opinion, that in a horse battaile, the depth ought to be no more than 4. I will fet downe his words as neare, as conveniently ! can english them. The depth, saith he, or thicknes, as it was of ancient time limited, is sufficient, if it be of 4 herse in every troupe; because in horse a greater depth will be idle, and to no purpose. For they cannot, as foote doe with their thicknes, thrust one an other forward from behind; and so the formost, will they, or nill they, are forced to goe against the enemy. And this is done amongst foote. But the horse can not thrust forward those, that are before them, nor the file-leaders that stand in front, be seconded in that kinde by the rest, that stand in depth after the fourth man. For if they be Lancers, the fift ranke cannot reach with their launces to the front. If Archers, they shall be faine to shoot aloft for feare of hurting their companions before; and so their arrowes serue for no vse, after fight is joyned. Therefore is the number of 4 sufficient in depth, as I have said. This was the opinion of Leo. To which I cannot absolutely affent; whileste he had given 8 for the front of his troupe, and so made it of a equall fides in figure not in number, as Elian requireth to be done in the best squares. For the reason of launces not reaching to the front in the fift ranke, reacheth not home to the reason of warre. Elian before hath declared, that the pikes of the seventh ranke reach not to the front of the Phalange. Yes no man will thereof inferre, that the Phalange ought to be but 6 deepe. Yea but the foote that come after, helpe the formost, seconding them, and thrusting them on with the weight of their bodies, which the horse can not doe. This must be granted to be an advantage that foote have about horse in depth. Tet are there other reasons also of giving depth to a Phalange: In the order whereof two considerations concurre; one of offence, the other of defence. The reaching of pikes or horsemens stanes over the front is good for offence, that is to annoy the enemy in the shocke : likewise the thrusting on of those that come behind, serneth with the violence to make them give ground. A reasonable depth is for defence, in as much as it defendeth a Phalange against the indeuour of the enemy to breake it a sunder. And as it is a fault to make it too deepe, so is it likewise a fault to make it too shallow. Too much depth narroweth the front, and exueth easie meanes to the enemy to incompasse, and 1 Leo cap. 14. Oner front it. 1 Too much shallownesse on the contrary side maketh it weake, and ready to be broken, and diffeuered by the enemy, and giveth a passage thorough, and meanes not onely to incompasse the front, but at the same instant also to assault it behind, and so vetterly to defeat is. So that the reasons of Leo reach not home, as I said, there being other caufes of thickning a horse troupe besides reaching of Launces to the front, and ioint thrusting on of the horse comming behinde. And where Leo speaketh but of 4 horse in depth of a troupe, Polybius faith plainely that being ordered for fight, they had for the most part 8 in depth; Polybius a man which lived in the times, whereof Leo Beaketh. and had beene Generall of the horse of the Achaans. Besides Leo seemeth not a little to m Leo cap 7. differ from himselfe. " For in his seventh Chapter, he writeth after this manner : If 531. \$ cap.14. there be many horse (that is about twelve thousand) let the depth be of 10. If but few, let it be no more than 5. In squares therefore I hold Elians proportion best, to double the number of the front, to the number of the flanke; and as the number of the troupe ariseth (for horse troupes are not alwaies of one number) to inlarge the length of

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being the middlemost of an vneuen number, as of 11, or 13, or 15. To which they iowne other rankes before, and behind, euery one conteyning two leffethan the former; as if the greatest ranke consist of 15, the next rankes on either side are to have but 13, the next on either side of these 11. and so every one two lesse, till at last you come to 1. And the whole Troope is to consist of 113 horse.

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the front, and the depth of the flanke proportionably one to an other.

6 When there are as many horse in length as in depth] I noted before in the minh Chapier, that there were two squares of equal sides, the one of number, the other of square; which two squares dissert in this, that the one maketh we equal sides in the shape of the battaile, the other equall. The first at this day, we call a square of men, the other a square of ground. When the number of the sides is equal in length, and depth, it is it is into the substants, occupying a soote, and a halfe of ground infront, when he goeth to charge, where in stanke he muss hime z soote. And in a horse troupe z soote in front, and double, or (we some say) treble as much in slanke. And so are the sides we equal. The even length of shat the number of the front double to the number of the sides of the sigure equal, but the number of the front double to the number of the slanke, whether it be in horse or some in sile; In ranke a soote and a balfe, in sile three foote. In horse, because the length of the horse is much more, than his breadth, and that length is sully stretched out in slanke, the breath onely in front.

Why Rhombes were first brought into wee, and the diners formes of them.

CHAP. XIX.

H E forme of the Rhombe seemeth to have beene taken up for the necessarial view thereof. For the Captaine possessing the first place, the next following surfamenare not to ranke with him, but to come a litle after on both sides; so that the heads of their Horses may reach to his horse shoulders, & on the right, & lest hand, and behind, they ought to keepe good distances that too much thronging and clustering together, breed not disorder, whilest some horses being by nature sullen fall a singing of tentimes, and soule with other; and considering the beast is somewhat long of body, that in turning about he wound not the horsemen, that are in fight, whilest with his heeles he aymeth at the Horses next unto him.

They that fashion Horse into Rhombes, so fashion them, that some Rhombes file, and ranke; some neither file, nor ranke; othersome file, but ranke not; other ranke, but file, but ranke not; other ranke,

but file not: every particular whereof standeth thus.

They that would have 2 a Rhombe both file and ranke make the greatest ranke being the middlemost of an vneuen number, as of 11, or 13, or 15. To which they to yne other rankes before, and behind, every one conteyning two lessethan the sormer; as if the greatest ranke consist of 15, the next rankes on either side are to have but 13, the next on either side of these 11. and so every one two lesse, till at last you come to 1. And the whole Troope is to consist of 113 horse.

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most part 8 in depth; Polybius a man which lived in the times, whereof Leo speaketh, and had beene Generall of the horse of the Achwans. Besides Leo seemeth not a little to the Leo capt. disfer from himselse. To say there be many horse (that is above twelve thousand) let the depth be of 10. If but sew, let it be no more than 5. In squares therefore I hold Elians proportion best, to double the number of the front, to the number of the slanke; and as the number of the troupe ariseth (for horse troupes are not alwaies of one number) to inlarge the length of the

is said before. And the sirstrow they make of an vneuen number (as 11). The Leader of the Troope standing in the middest, and 5 other being laid to him backwardly on either side; so that this Ranke conteinest two lides of the Rhombe. Then the reare-Commander is placed directly behind the Leader, and to him are other joyned forwardly on either side, and the number of every following ranke after the first, is to be two lesse than the former, and therefore 4 must be added on either side to the reare-Commander, and the number of the second ranke be 9. This ranke maketh two sides Parallel to the two former sides of the Rhombe. The third must be 7, and so forward to one. The whole Troope hath in it 36 Horse. S Polybius expresses the forme by the Greeke letter A. and maketh it to consist of 64 men.

Other Rhombes there are which efile, but ranke not, and are fashioned thus: They make a file of any number, the Captaine of the Troope being File-leader, and the Reare-Commander the last of the file. To both the flankes of this file, they lay two other files, either of them one lesse in number, than the first. These they begin to place, euen with the middest of the distances of the first sile on both lides, as if there were 10 in the first sile, the next siles on either side should have 9 a peece, and the next after them 8 a peece, and still one lesse in all the rest after comming-files, and so it will fall out, that the Horsemen shall file, but not ranke. This forme is profitable for turning of faces, when need is, from one point of the Rhombe to another. Turning to the right hand is called turning to the site. Turning to the less thand is called turning to the Raines. But if a Troope be 8 to ranke, and not to file, it must be ordered thus: The middle and greatest ranke is to be middle of an vneuen number, and the rest of the rankes on both sides, laid enen with the distances of this ranke, as was done in the filing troope. So shall you have a Troope that ranketh, but fileth not.

Notes.

HE former Chapter had a generall division of Horse battailes into Rhombes, wedges, and squares; this comprehendes the supary sigures of Rhombes, and the manner of framing them. Rhombes therefore are of 4 kindes, some filing, and ranking; some filing, not ranking; some resulting, not filing; some neither filing, nor ranking.

I The heads of the horsesteach to the heades of his shoulders.] Elian saith, that in a Rhombe the Captaine standeth first, and the heads of the next horse reachts his horse shoulders. This rule, if it be taken generally, and meant of all Rhombes, will decine vs; if for two kinde of Rhombs alone, there is nothing more true. The Rhombe neither siling, nor ranking, and the Rhombe sliing, not ranking, have the followers horses heads advanced to the shoulders of them, that stand before the Rhombe siling and ranking, and the other ranking not siling, come wholy behind the horse of the Captaine, as the sigure showers, and will appeare in the verball description of the Rhombe.

2 A Rhombe both to file and ranke] To make a Rhombe both file and ranke, choice must first be had of an uneuen number for the ranke the middest of the Troupe, where the manner is to begin the Rhombe; which number must neither be too great, least the Troupe grow also too great, nor too litle, lest there be in it no strength. Elian gives a 11, 13, or 15 for that ranke, and willeth us to begin the frame by placing first the middle ranke, to which the other rankes are to be in yned on both sides, the middle men.

against the mildle man of the first ranke in a right line of file, and the rest inlike fort; enery Ranke still decreasing 2 men, till at last in the front, and reare-angle you come to one. The figure of this knows of Rhombe I have placed in the precedent Chapter; wherein the middle ranke is of it, and the whole troupe of 61, and the horse heads of those that follow reach not to the former horses shoulders.

3 The hulfe Rhombe is called a wedge] I have spoken of wedges before, but nothing of the framing of them. Elian here showeth how they are framed, when he saith, that the forme of them appeareth in the Rhombe, and that the haife Rhombe is a wedge. For as in 1 Rhombe filting, and ranking, you begin with placing the middle ranke first, and so proceed adding on both sides ranke to ranke, till you come to one man in the fron: So must you proceede in a wedge, sating state to the first, and greatest ranke, you to you to you to not be one side, abating still in every ranke 2 men, till you come to the point of the front, where the Captaine standard alone. And this was the ordinarie horse troupe among the Macedonians, and is described in the next Chapter.

4 That the horseinen neither file nor ranke | The second kinde of Rhombe secified here by Elian is directly opposite to the first. The first both filed, and ranked, this neither fileth, nor ranketh; and is that kinde, which I noted in the last Chapter, to have more curiositie, than cle. For the rest, what is more easie to frame, than they? In which either files, or rankes are laid together; or files alone, or ranks alone. And out of that iogning both in the inward parts of the Rhombe, and the outward (that is the flanks) arise, and are without difficulty figured. In this you must first begin with the outsides, and make two front lines, or sides of the Rhombe; and after adde as many to the Reare. And then when the 4 fides are framed, and have their place, patch up by peece-meale therest of the body within. Wherein if there be not very large distances left betwist horse, and horse especially every one being laid head to shoulder to an other, it is not possible to convey so many horses within the foure sides, as will make up the full Rhombe. And retmake it up as you will, the trouble is more than in the rest of the Rhombes. And for the vie, I see not how it can be greater, than in the rest, what soeuer is alledged for turnings. and other motions. And the more I thinke upon it, the more I am induced to thinke, that it was the invention of some Tacticke master (of whom were great plenty among it the Græcians) who feeing that some Rhombes filed, and ranked not; other ranked, but filed not; other both ranked, and filed, and that the two first were opposite the one against the other, would needs bring in a fourth, neither filing, nor ranking, to make an opposition likewise against the third. But because this kinde also is specified by Elian, let vs see how it is to be framed. Elian for examples sake would have the Treope to consist of 36 horse. To put the le 26 horse in a forme, that shall neither file nor ranke, we are thus to worke. First, we must begin with the two front sides of the Rhombe, and make them of 11 horse, placing them thus: The Leader and Captaine in the point; next him backwardly on each side a norseman, his horse head reaching to the shoulders of the Captaines horse; then on the outward side of each of these a Horseman, and their horses heads must likewise reach to the shoulders of the next horses before. So must you goe on, till you have in like manner bestowed 2 a peece more on each side, still opening the two sides of the Rhombe proportionally. Thus done you have — Then are we so fashion the two Reare sides of the Rhombe which — Rhombe of 9 horse, placing them after this manner: The Lieutenant in the Reare angle directly opposite to, in yet looking toward the Captaine; on either side of him forward toward the front 2 Horsemen, their horses shoulders lying even with the head of the Lieutenants horle. And after them the other 6; 3 on one fide, and 2 on the other in the same proportio. And so have we the other two sides of the Rhombe in this forme. -_ which being

Cap 20

The ordinary horse troupe consisting of 64

iogned to the former make the 4 sides of the Rhombe; In the framing whereof 20 of the 36 horse are bestowed. There remaine 16, which are thus to be ordered: Within the Rhombe we must at reasonable distance place a horseman behind the Captaine in a right line, and in the manner as before lay 3 to him on each side. The number will amount to 7, and this is the figure.

Then another horseman is to be set at the same distance at really before the Lieutenant, and on ech side of him two other toward the some and these 12 horse ioyned togewhich will be 5 in all, and in this form.

And these 12 horse ioyned togewhich will be 5 in all, and in this form.

And these 12 horse ioyned togewhich will select the state of the surface of the state of the ordered within the sides of the sirst. So are 32 horse disposed of. The 4 that are left are thus to be ordered. In a right line againe after the Captain, and at the some of the other side of him, their horse heads reaching to his horse shoulders thus the order that side of him, their horse heads reaching to his horse shoulders thus the sortened the side of him, that side the true description of the Troope neither silmo, next thus

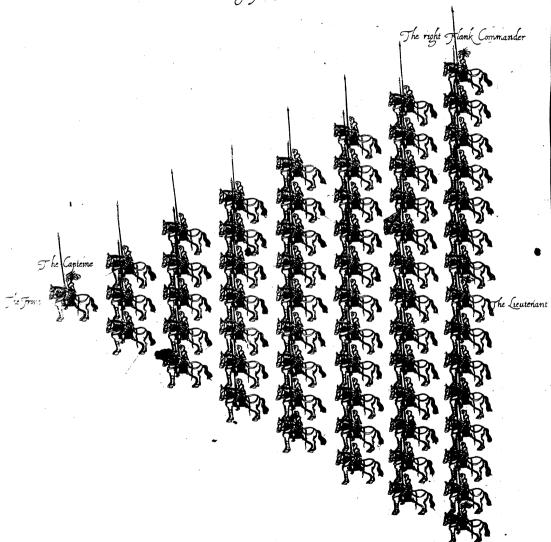
**Nor ranking. I have been the lunger in describing it, because the figure graven is not fully to my minde, no horse head reaching to the shoulders of the horse, that standeth before him.

5 Polybius maketh it to consist of 64 men] Elian tooke the number of 36 horseto frame this Rhombe, Polybius requireth 64. The number is not materiall, so the forme be observed. If you make it of 64, you are to take 15 horse for the 2 front sides, and 13 for the 2 reare sides, and so in every ranke withinto diminish 2, as you did in the former.

6 Which file, but ranke not] The third kinde of Rhombe fileth, but ranketh not. It is easie to frame. Take what number of horse you please, and make a file; then lay to the distances betwixt horse, and horse of that file on each slanke two other files, each file conteyning one lesse in number than the first. And the heads of the files are to be laid right against the space which is betwixt the Captaine, and his follower, and thereft of the horses against the other spaces successiblely. In all the paires of files, that follow, and are laid to the slanks, you must still diminish a horse a peece, till you come to the points, which have but one either of them. And of this abatement of one in every file, both front, and reare, and slankes grow into points, and make a Rhombe: As of the even number in every sile, a square battaile would arise. See the sigure. This was the forme the Thessalians sought tester cap 46. in, as appeareth by Elian.

7 Turning to the right hand] The turnings of horsemen and sootmen to the right, and left hand, are not termed by the same names. And the difference commeth of the discristic of weapons caried on the right, or left side. The horseman in his right hand held his staffe, in the left the raines of his bridle. The armed-soote in his right hand his pike, on the u Folyendib, less shoulder his Target. Hence was it, that when the horseman was commanded u to turne to the right hand, they hid him turne to his staffe; the sooteman to hu pike. When to the left hand, they hid the horseman turne to the Raines, the sooteman to the Target.

8 To ranke, and not to file] This is the last kinde of Rhombe, and it ranketh, but sileth not. It is made by a contrary way to the former. The filing Rhombe began at the front point, or resre-point, or proceeded to the flanks. This beginneth at the flanke points, or proceedesh to the front and reare. First therefore a ranke is to be laid of what number you list. Elian would have it of an uneuen number; but it will fall out as well in an even number, as the figure showers. To the distances of this ranke you must lay 2 ranks more, one on either side, whose number must be one lesse a peece, than the former ranke. Thus continue laying ranks still toward the front, and reare, and in euery paire of ranks diminish one a peece, till you come to the points, either of which have but one, namely the Captaine, or the Lieutenant, and the Rhombe will ranke, and not file.



HIL

The place of Horsemen in the field, the number of an usual borse troupe; the degrees, and names of the officers of the Horse in generall.

CHAP. XX.

H E Troopes of Horse, as the light-armed, are placed sometime before the Phalange, sometime on the right, or lest hand in flanke of the Phalange, sometime behind the light-armed in the Reare. For our purpose, let them be placed in the Reare, and I let the first Troope be of 64 men, and the first ranke thereof 15 Horse The next 13. The next 11; and in all the rest abate 2, till you come to the last, which is one.

² He shall carry the Cornes, that standeth in the second ranke next the Ranke-Commander on the left hand. All the Troopes shall be 64 in number. The horse-men in all 4096. ³ Two Troopes are called an Epilarchy of 128 horse. Two Epilarchies ⁴ a Tarentinarchy of 256 horse. Two Tarentinarchies ⁵ an Hipparchy of 512. Two Hipparchies ⁶ an Ephipparchy of 1024 horse. Two Ephipparchies ⁷ a Teles of 2048 horse. Two Teles make ⁸ an Epitagma of 4096 horse:

Notes.

Itherto of squares and Rhombes, vsuall horse battailes among It the Graciaus. Now followeth the horse battaile of the Macedonians, of which P Elian bath thus afterward: This forme of horse battaile is called a wedge by Tacticks, and it was invented by Philip King of Macedonia, who placed his best men before, that by them the weaker might be held in, and inabled to the charge. As in a speare, or sword, the point whereof, by reason of sharpnes quickly piercing makesh way for, and lestelim the middle blunt yron. I have spoken somewhat of the wedge in the two last Chapters. Elian in this Chapter sheweth the number, and manner of framing it, and how many troupes ought to attend the Phalange, and onder what offices, and degrees.

Let the first troupe be of 64 men] The number of the wedge ought to be 64 horse. You make it beginning (as the Rhombe that ranked but filed not) with a ranke of 15 horse. Then must you proceed toward the front, with an other ranke of 1, the middle man sling with the middle man of the first ranke, and the rest with the rest. And so you are to continue abating still two in enery following ranke, till at last you come to one, who is the Commander of the Troupe, and standard in the point of the front.

2 He shall carry the Cornet] The place of the Cornet is not right set downe in the figure. He there standeth on the right hand of the middle man of the second ranke, whereas he should stand on the left. And you must not account the second ranke to be the ranke next to the Commander in the from; but as Elian doth, that was secondly placed after the first consisting of 15, which was in the Reare. So that the Cornet is to stand in the next ranke to the Reare.

But here is nothing said concerning the distances, that ought to be betwirt horse, and horse. Of the distances betweene foote, and some he hath spoken in the II Chap: But of the distances betwirt horse, I sinde nothing, but generall words. That which wanteth in Elian, I will supply out of other Authors. We must understand then, that two kinds of distances were observed amongst horsemen; one for marching, an other for sight:

t after Cap. 4

n Polycal

n Polyb lib.12

663.A.

In marching there ought to be 6 foote betwixt horse and horse. Elian hath before given this distance to the foote. And that horse held it likewise appeareth by Polybius. Who reprehending Cal fthenes for carelefuesse in describing the battaile betwixt Alex. ander and Darius at Istos, specially taxeth this : That he placed thirty thousand horse. and thirty thousand mercenaries, in foureteene furlongs of length. whereas the place was not capeable of halfe the horse. " His words have this sense; The order of horse. when they are prepared for fight, is for the most part 8 in depth. And there is a distance to be left in front betwixt every troupe, to give liberty to wheele and double-wheele. So that one furlong will conteine 800 horse; and 10 furlongs 8000; 4 furlongs 2200: And eleven thousand, and two hundred Horsewill fill the space of 14 furlongs in length. The words seeme at fust somewhat obscure, being well weighed they will be cleare enough. Polybius saith that these 800 horse were ordered 8 in depen, and that they tooke up a furling of eround in length. There must be therefore of them a hundred files. For a hundred files of 8 horse a peece. will arise to 800 horse. Compare then these 100 files, (the length of the battaile) to the length of a furlong. And seing a furlong conteineth 400 Cubits, or fix hundred toote, enery file shall have a cubits, or 6 foote space betweet them. And so the distance bermixt file and file in a march will be a Cubits, or 6 foote. The other distance of three foote appeareth in " Leo, whose words stand thus : Put the cuse, that the battaile is of 600 horse in length, and 500 in depth, seing that every horse in length of the battaile possesset three foote in breadth, the number of feete will amount to 1800; And seing againe that every horsein depth possessions, there will arise hereof 4000 feete; so that in the soure-sided figure, out of the length of 1800, and the depth of 4000 feete arise 720 Myriades of square foete. And the Perinter alone of the outward foure sides conteineth 11600 feete. And because 6 feere make a fathome, and a 100 fathoms make a furlong, and 7 furlongs, and a halfe, make a mile, the whole Perimeter of 11600 feete will come to two mile, and a halfe, and neare a 10th part. In this diffauce therefore according to the closest order, or shutting, the thirty thousand horse are conteined. But if they fland not fo close, you must alter your account according to the thinnesse, and out of the greatnesse of place consecture of the multitude of the people. So Leo. Which place albeit is seeme to require a large interpretation, because many things worth the noting offer themselves in it; yet for this time I will onely infist upon that, which I first propounded, that is the distance of three foote betwirt borse, and borse, when they goe to charge (for that is the meaning of Lco when he speaketh of the closest order) which distance is expresty here fet downe. And the matter will yet seeme more cleare, if we adde the words of Leo in the Paragraph next, but one, to this, which are thefe: The oldest Tacticks in ordering of foote Battailes give every man at the first distance foure Cubits; when the battaile is closed two Cubits; when lerred and shut one Cubit. Out of which proportion a Scont may exactly discouer by the quantitie of the place the number, not onely of horse, but of soote also. These oldest Tatticks that Leo mentioneth agree with Elian, as wee have seeme. But where the foote have three distances, the horse are to have but two. The open order of fix foote they ought to have, and likewise. that of three foote; newever they cannot come together, because of the bredsh of their horse, and because they are to have roome sufficient for the weilding of their

The Tatticks

All the Troupes are to be in number 64] A Troupe consists of 64 men, and to the Phalange belong 64 Troupes, as the Phalange contemeth 64 Ensienes, or Syn-

tagma's of armed foote. To which Enfignes the 64 Trospes of horse are proportioned. Their place is according to Elian after the light-armed; not one troupe after, or behind an other, but one beside an other, in one front; and that front in a right line, which stretcheshout, as long as the Phalange of armed it selfe. Now the files of the armed being 1024 in number, and the number of the horse in the last ranke (which conteineth the length of the Horse-battaile, and should answer the number of files) but 960, we must seeke out a proportion to make the length of both equall one to another. The difference then betwixt them in length is 64 men, which in order take up 192 foote. And where there goe foure Phalangarchies to a fourefold Phalange, and 16 troupes of borfe are placed bebind every Phalangarchie, we must divide these 192 foote into soure parts; every of which parts will amount to 48 foote, and give to each trompe three foote distance one betwixt an other (for distances betwixt one troupe, and an other, Polybius holdeth necessary) and so so il the 16 troupes of horse take up as much ground in length as a Phalangarchie. The one conteining 256 files in length which occupy 768 foote of ground, and the other 240 men in the last ranke, which occupy 720 foote. To which adding 48 foote of distance, there ariseth the even number of 768. And so shall the 64 troupes of horse be even in length with the fourefold Phalange.

The names of the Offices, and Commands of the Horse follow, wherein as I before noted in the foote, we must not presente one are the property of words, but take them, as

they have beene vsed among Souldiers.

Two troupes are called an Epilarchie] One troupe is called Ile, and the Commander an o Harch; for so be is termed before in Elian. Two troupes an Epilarchie, o Cap. 18. and the Commander an Epilarch, as it were a Commander over two lles, troupes. He bath 128 Hor le wader his command.

4 A Tarentinarchie] Of Tarentines mention is made in the second Chapter. The name of a Tarentinarchie is not given to this Troupe, because it consisted of Tarentimes, but because of likely bood the Tarentine hersemen had someon in attempt Lenis be, as it will, it signifies bere a troupe of 256 Horse,

5 An Hipparchie Properly significant the command of horse, and Xenophon

wheth the word Hipparch for the Generall of borfe; but Elian, and the Tacticks whe u for the command of 512 horse.

6 An Ephipparchie] As it were a command over two Hipparchies, or over 1024 borje.

ATclos | The name of Telos is given both so a body of horse, and so a body of foote. A Merarchie was called by some Telos (Saith Elian before) and contemed 2048 armed. The Telos of horse conteineth 2048 borse. So the bodies are egsall in number. The word sometimes significate a Command, or Dignitie, from which signification this body, as feemeth, hath the name.

8 Epitagma] The whole body of light-armed was called an Epitagma , which name is given likewise to the whole body of horse comprising 4096 horse. It maybe they are both so called, because they are placed behind the Armed, as I neted before. For that

place Elian assigneth unto them.

The diligence to be veed in choice, and exercise of the best formes of Battailes.

CHAP. XXI.

HE Inventions and conceits of those, that lived in old time, about Troopes of Horse are declared, in what forme every one was cast, and for what cause some vsed one forme, some another. Now it behoueth (as in things that carry with them great difference) not carelefly, and negligently, to rely voon the bare precepts; but rather by daily exercise to make tryall of every kinde of figure, and so attayning to the perfect knowledge of that, which is readiest, and of most advantage, to admit and receive it in true fight. For it were great simplicitie, confidering in matters of lesse importance men by curious inquiry reach to the exact finding out of many things, herein not to ground vpon perfect and fure experience, before we come to joyne with the enemy.

Troopes may be inlarged or leffened, as it shall seeme convenient to him, that

hath the command.

Of Chariots; the names, and degrees of the Commanders.

en n'e Cantofaren CHAP. XXII. - web I to have suggested at a decem-

Secretaring Charists and Elephants, albeit they are wome out of vie, yet to make up the measure of this discourse, I will remember their names, as the lare fer downe in ancient writers. In the Art of ordering Chariots for the field they call two Chariots a 2 Zygarchy, Two Zygarchies a 2 Zyzygi; Two Zyzygies an 3 Epyzyzygi; Two Epizyzygies an 4 Hartamarchy; Two Hartamarchies a 5 minz; Two wings 26 Phalange.

A man may vie many and fundry Phalanges of Chariots, and yet retaine the fame nathes in every Phalange. Some have framed simple Chariots to serve withall; other some have armed them with Sithes prominent and standing out on

cach fide.

Here were two kinde of Chariots vsed of ancient time, the one a simple Chariot, the other a Charies armed with fithes. The first kinde was veed by the Heroes (as they terme them, that is the renowned Souldiers of old, such as were Achilles, Hector, Cycnus, Eneas, Turnus) as appeareth by Homer, Virgil, Ovid, and other Poets. The last was brought in by the Generalls of later times, especially by those that raigned in m Liv. decad. Afia, and in Africa. For the " Europeans have counted them fruitleffe, and vaine mockeries, and amongst them you shall hardly finde any mention of Chariets. Elian toucheth them onely, because both they, and Elephants were in his time growne out of vie. Wherefore I meane likewise to passe them oner sleightly, onely directing the Reader that is desirous to understand their manner of fight to places of Historie, where they are mentioned. And first see for their

Forme.

Forme. Xenoph. Cyrop.lib.6.152. D.E.& 156.B.C. de exped. Cyr.lib.1.264. A.B.Liu.decad.4.lib.7.142. A. Diodor. Sicul. lib.17.596. Quin. Curt. lib.4.119 &lib. 8. 371. Their violence, Diod. Sicul. lib. 17. 593. Their place in the battaile, Xenoph. Cyrop. lib. 6. 168. C. D. Liu. decad. 4. lib. 7.

141.A. Diod. Sicul. lib. 14.408.

Remedies against them, Diodor. Sicul.lib. 17. 592.593. Xenoph. de exped. Cyr. lib.i.265. Liu.decad.4.142. Quint. Curt.lib.4.141, Plutareh. in Sylla. I come to the names of the Commands of Chariots.

1 A Zygarchie The command of two Chariots; as it were a yoake of Chariots. A Syzygy] The command over two yoakes, as it were, of Chariots soyned together; that is over 4 Chariots.

3 An Epilyzygy] The command over four eyeakes of Chariots, that is over eight Chariots.

An Harmatarchie | Properly the command of Chariots. But vied by Elian for the command of 16 Chariots.

A wing] As foote, so Chariots, and Elephants, had their wings of battaile. To the wing went 32 Chariots. Yet finde I this order of imbattailing Chariots no where, but in Elian. He that will, let him read the places, that I have noted before, for the orderine of Chariots. Notwithstanding I can not doubt, that the names given here by Ælian, are taken out of ancient writers.

A Phalange] It confifteth of 64 Chariots ; and wee here see, that Chariots also badtheir Phalanges, as well as foote, and Harfe.

Of Elephants; the memes, and degrees of their Commanders.

CHAP. XXIII.

Outhing Elephanes, he that is Commander of one Elephane is called Zearche; Oftwo Therarcha, and the body a Therarchy; Of foure 3 Epitherarche, and the body an Epitherarchy; Of eight 4 Ilarcha, and the body an Harchy; Of 165 Ehophantarcha and the body an Elephantarchy; Of 32 & Keratarcha, and the body a Keratarchy. That which confifteth of 64 wee call 7 a Phalange of Elephants, as if a man should name the Commander of both the wings Phalongarcha.

Notes.

He vse of Elephants was greater among st the people of Asia and Africa. Those of Europe esteemed them not much. And yet we finde, that they were brought into the field by the Romans also; who first faw Elephants in Italy in the warres, they had against King Pyrrhus. * The Indian Elephant was preferred before the African for greatneffe d Lindecal. 4. of body, firength, and courage. Many things are written concerning the feruse of He Polychis, s. phants. But because Alian toucheth no more, then the names of the bodies, and thede- 425.CD. grees of Commanders, I will only note such things, as I finde concerning them in Histories. Their kinde of armor, and furniture I have taken out of Livy, and expressed them as neere as I could in figure.

The Tacticks

For their power, Brength, and manner of fight, fee Diodor. Sicul. lib. 17. 609. & lib. 19. 717. Polyb. lib. 1. 35. D. & lib. 5. 425. C.

Their place in battaile, Diodor. Sicul.lib. 17.685. Arrian. lib. 5.111. Liu. decad. 4.lib. 7.141.B. Appian.in Syriac. 107. Polyb.l. 1.34. D.

The distance one from an other. Arrian.lib.5.111.

Light armed in the distances betwixt Elephant and Elephant, Diodor. Sicul. lib. 17. 609. & lib. 18.665. & lib 19.685. & 716. Plurarch. in Pyrrho.

- Remedies against Elephants, Diodor, Sicul.lib. 18.665. & lib. 19.717. Polyb. 1.

42. A. Hirt. de bell. African. 416. Liu.decad. 2. lib. 7.194. C.

Ihave noted before the improprietie of names given to militarie bodies as well in the armed and the light armed foote, as in hor fe troupes, and in Chariots. That defect is no leffe in Elephanis. The Commander's and commands of them having names, which were at first large, and improper enough, but afterward made good by vse, and received by the Tacticks as significant to expresse the things, for which they were innented. The first is given to him that is to command one Elephant. Who is called

I Zoarchos The Commander of a living creature, that is of one Elephant. The

next is

2 Therarchos A Commander of Beafts: which name is appropriated to him, that commandeth two Elephants, and the body it selfe is named a Therarchie.

3. An Epitherarcha] Having the authoritie over the Therarchie and the body is

called an Epitherarchie comprizing foure Elephants.

4 An llarch] As it were the Commander of a troupe; and the body is called an llarchie. Ile is commonly applied to horse, and signifieth a horse troupe, and Ilarchathe

Captaine. But here Ilarcha signifieth the Commander of & Elephanis,

5 An Elephantarch] A Commander of Elephants; as though the other bodies before mentioned were not of Elephanis. Such straights are men often times driven unto in denifing new names for new things, which not withfranding paffe afterward and growe familiar by vse. Elephantarcha commandeth 16 Elephants, and the command is salled en Elephantarchie.

6 A Keratarch | The Commander of a wing, the body a Keratarchie, baning in

it 32 Elephants. A wing of Chariots had as many.

7 A Phalange | This is the greatest body and consistesh of 64 Elephants. But as Chariots may be ordered into many Phalanges, and yet the same names retained in every one of the Phalanges, (o it is in Elephants. For that armies have had in them at once ac Polyb. lib. 1. boue 64 Elephants appeareth by Histories. Polybius, and Diodor Sicul: testifie, cthe first that the Carthagineans, a the last that King Porus against Alexander had the one 140, the other 130 Elephants in their armies . The same Polybius saith that Ptolomey e Polyb.lib.5. had against Antiochus 73 Elephants in his armie, and Antiochus 102. And Plutarch f Pourch in reporteth that Androcottus, Ring of a part of India, gave to Seleucus at on time 500 Elephants

> The names of military motions expressed in this booke.

> > CHAP. XXIV.

Hushaue we set downe in particular the kindes of perfect Forces together with the seuerall names of enery body; Which being premised, it seemeth

Alexand.

fit to deliuer the words of exercise, that when the Commander, shall will any thing to be done, the Souldier in daily experience acquainted before with the fignification of every of them, and with the mooning in each figure may easily performe and execute, what soener is commanded.

There is a motion called Cliss whereof one kinde is to the Pike, the other to the Target; Another is called Metabole; another Epistrophe; another Inastrophe; another Perispasmus; another Experispasmus; besides we say to file; to ranke; to returne to the first posture; to countermarch; to double. Likewise we vie the words Induction; and Deduction to the right, or left hand; a broad-Phalange; a deepephalange; and vneuen-fronted Phalange; and Parembole; and Protaxis; and Finaxis, and Hypotaxis; and Epitaxis and Prostaxis. The signification of which words I will shortly deliuer. And yet I am not ignorant, that the precepts of warre are not by all Tasticks expressed in the same tearmes.

Notes.

A Elian in the Chapters precedent, hath numbred up all kindes of forces, as well foote, as Horje, and Chariots, and Elephants, that in ancient time were accounted new flarie for warre. And hath given them their armor, and furniture, and diftinguished them into militarie bodies, and imbattailed them, and taught the distances, that they ought to hold in fight. It followeth now that he speake of motions military; which are the life of an armie, and onely give meanes of with orie; and without which all preparation of forces is vaine, and availeth nothing in the sield, nor to the end, for which they were levied. This Chapter then conteined the names of those motions; the following Chapters the particular explication of them. To which we will note, what we finde in ancient writers. For the signification of the words, I referre them to the several Chapters, where they are expounded.

Of turning, and double turning the Souldiers faces, as they stand embattailed.

CHAP. XXV.

Liss or turning of the face, is the particular motion of every Souldier declining his face either to his Pike, that is to the right hand, or to his Target, that is to the left hand. The vse of it is, when the enemie sheweth himselse in flanke 2 to encompasse our winges, or else to charge vs: or for some other cause, whereof I will speake in convenient place. 3 Two turnings of the face towardes the same side transferre the sight of the Souldier to the reare of the battaile. And this kinde of motion is called Metabole: being also vsed either to the Pike, or to the Target. In the first standard the moving of the Souldiers face toward the Pike is called Cliss, the second moving the same way Metabole. For Metabole is the conversion of every mans face particularly to the place, which was behinde his backe. And the same that Metabole is in each severall Souldier, the same is Perispassos, or wheeling about in the whole battaile. There are 4 two kinds of Metabole, the one from the enemie, the other to the enemie. Metabole is defined to be a changing of every mans face in particular from the front to the

\$ 17.

reare; or contrariwife. Turning about from the enemie is, when the Souldier turneth his face twice towards the Pike; To the enemy, when hee turneth twice towards the Target.

Notes.

Poure kinde of Motions are set downe by Alian whereby woon any occasion the bas-taile may be somewhat changed: Turning of faces, countermarch, wheeling, and doubling. whereof the first may be vsed, in what order soener your battaile standeth, the fecond onely in open order, the third in close order only, the fourth either in close, or o. pen order. Clifis, or turning of faces, whereof this Chapter intreateth, albeit it may bee brought in also in open Order; Tet is it not don for the most part but in close order; and then especially, when none of the other motions have place. The Gracians alwaies coneted to bring their file Leaders, that is their best men , to fight. In open Order ther chose to countermarch; In close Order, having place, to wheele their battaile about, and so turne the face of it against the enemy. If they could doc neither of these, they came to the last remedy, which was turning of faces of every particular man in the battaile.

Clifis, or turning of faces This motion is of leffe paines then any other, but of no lesse importance, or necessitie. In the rest the Phalange changeth the place, or the forme: In this it holdeth both, and yet is ready for any attempt of the enemy. Onely every Souldier in particular turneth bis countenance to the right or left hand, as he is commanded. To turne his face to the Pike is to turne to the right hand, because that hand bore the pike, to turne to the Target is to turne to the left hand; because the Macedonians caried their targets on their left (boulder. For the vse of this turning of Faces, Ælian saith, It

hath place when the enemie sheweth himselfe in flanke

To incompasse, our wings \ Clisis is no more, then bearing faces to the right, or left hand, that is to our wines. When then we finde our enemies, to incompasse our right wing, wee turne our faces, and weapons that way to receive him: to the left, when he commeth to charge vs on that side. If on both sides, then turne wee the faces of our Phalange balfe to the right, halfe to the left hand; which is the Antistomus Phalange whereof Ælian speaketh hereafter. Briefely, there is almost none of the marching Phalanges which are afterward discribed, but it hath neede of this motion. Besides if wpon any occasion the Phalange be to move from any of the flanks, you are only to command Turning a Polyen.lib.4 of faces to that flanke, and then to lead on. I will give an example, or two. 2 Alexander at Arbela having imbattailed his armie to fight with Darius, had intelligence, that Darius had ftrowed the ground betwixt the two armies with Calthropes. He commanded therefore the right wing, which himselfe led, to turne faces to the right hand, and follow him, to the end to go round about, and avoide the places, that were fowed with Calthropes. Darius marching against him to the left hand, disioyned his troupes of horse, and Alexander taking the advantage, and giving in quickly betwixt the spaces, put Darine to flight. If Alexander had marched on with the right front, he had fallen upon the Calthropes. To avoide them, be weed the benefit of this motion, and turning faces to the right hand he led on, untill hee badpaffed the danger, and then turning againe to the first posture, went to charge, and defeated the enemie. b Polyblib II. An other example is in Polybius, who describing the battaile betwixt Machanidas the Lacedemonian Tyrant, and Philopæmen the Achæan Generall, telleth, that Machanidas having in the left wing put the Achean mercenaries to flight, followed hard the chase. Philopamen as long, as there was hope, indenoured by all meanes to flay his men: when he saw them vtterly defeated, hee hasted to the

right wing, and perceiuing the enemie buile in chase, and the place voide, where the fight had beene, commanding the first Merarchies to turne their faces to the right hand, hee led them on with high speede, not yet breaking the order of their imbattailing. And quickly leazing vponthe for faken ground, hee both cut betwist them, that gaue chase, and home, and withall got the admintage of the vpper ground against the left wing of the armed. Whereby hee obteined the victory. If Philopoemen had in this action vied wheeling of his battaile, which onely was the other motion, which would have ferued his turne, bestdes the troublesomenes of the winding about, he should have beene forced to have vied two wheelings, and so falled of the clerity, which was at that time requifite. Faces were turned in a trice, and he made himselfe Master of the ground, hee desired, before hee could have wheeled once bis battaile.

Two turnings of the Souldiers face] Clifis, or turning faces to the right, or left hand, consisteth of one turning and moueth no further, then the side. If the motion betothe reare, it hash two turnings, and is called Metabole, which is defined to bee a changing of every mans face in particular from the front to the reare, or contratiwise. And as wheeling of the whole body carrieth about the fronts of the battaile to the reare; So doth Metabole turne the face of every particular Souldier, and maketh him looke from the front to there are. The word properly fignifieth a change, which happeneth herein, when the souldiers are changed from the front to the reare, or contrariwise. The ve of Metabole is principally to refift the enemy that gives on opon the reare. 2 So Pyr- aPlutin Pyrth. thus being entred the Citie Argos with a few, and ouerpressed with multitude, retired by little and little, and defended himselfe, often turning his and his souldiers faces against the enemy. b So the armie of Cyrus the elder retiring from the walles of Babylon, e Xenoph. Cyoften turned about their faces to the left hand, and waited their enemie, who D. were reported to be on foote, and ready to come and charge them. And if the enemy affault both the front, and reare, it hath beene the manner to continue halfe the souldiers in each file with their faces to the front, and command the other halfe to turne their faces to the reare against the enemie behind. And this forme is called Phalanx Amphistomos discribed by Ælian cap. 38. And sometimes it is vsed to speed our march, and preuent the enemie, as was said before of Clisis. Agesilaus made an incursion into b Polyenlib.in the Territory of the Thebans, and finding a Trench, and Ramper cast up by the Agefiao. Thebanes for defence of their Countrey, and onely two narrow waies betwixt, he

present to resist, and entring spoiled the Country; and returned without impeachment. 4 There are two kinde of Metaboles] Before were rehearfed two kinde of turnings of faces about, one to the pike, the other to the target, here is added to o more, one from the enemy and the other against the enemie; which are all one indeed, and differ onely in name. What the true meaning of these turnings should be, I am in doubt, Elian expounding them one way, Suidas another. Elian esteemes them by the right, and left hand, Suidas, albeit he have that signification also, esteemeth them by the front and reare. The efore Suidas defines the turning from the enemie to bee a turning about, toward the reare : that against the enemie, a turning about toward the front. Elian would have the first to containe two turnings toward the right hand, the second two turnings toward the left. I for my part affent rather to Alian. For touching the turnings of Suidas, I cannot yet understand, why turning toward the reare should be a turning from the enemie; Or toward the front a turning to the enemie: Considering that

cast his armie into a hollow Plinthium, or square, and led it against the left hand

passage, whither all the Thebans flocked for defence. But heeturning about faces

from the reare, hasted away, and gained the other passage, where no man was

of Ælian.

whether soener you turne faces, the enemie is imagined to be there; faces and weapons heing to bee opposed alwaies against the enimie, which is the onely end of turning. Alians ovinion leemeth to have more probability in it, at least if I conceive the right reason. For I take it thus: That seeing the Græcians (as the Romans likewise) were Targetieres, and caried their targets on their left side, and in fight advanced that side alwaies neerest the enemie which they (ought to couer with their targets, that therefore the turning about to the enemy, was called turning to the Target; as contrarily turning to the right fide, on which side the Pike was caried, and which being naked of such defensive armes was called 2 Latus apertu 2 the open fide, and therefore further removed from the enemy, might for the same cause be tearmed turning from the enemy. So that I take turning about to the enemy, and turning about to the target to be all one, as also turning about from the enemy, and turning about to the Pike, how soever the name differ. This is my coniecture, which I fall imagine to be true, till I finde some man, that will bee pleased to give me a more probable reafon: I only adde now the words of command in this motion.

Faces to the right hand. Faces to the left hand. As you were. Faces about, to the right or left hand. The figure sheweth the manner.

Of wheeling, double, and treble-wheeling of the battaile, and returning to the first posture.

CHAP. XXVI.

r T Pistrophe (or wheeling) is when the battaile being so closed, that no man can turne, or twice turne his face by reason of the necrenesse of man to man, it wholy, and iointly wheeleth (as a ship, or some other body caried about) the order thereof remaining vndiffolued. When the wheeling is to the Pike, we warne the right-corner-file-leader to fland still (as it were the hooke of a doore hinge) and the rest of the battaile proceeding forward to turne about the same file-Leader like the doore. In the same manner is wheeling to the Target ; It may be thus defined: Epistrophe is, when thutting the battaile by gathering close the Followers, and Side-men, we turne it wholy (as the body of a man) toward the Pike, or Target, it being caried about the corner-file-leader, as about a Center, and, changing the place of the front, transferre the countenance of the fouldier to the right, or left hand; the followers and fidemen enery one remayning in file and ranke as before. How it is to be done I will shew hereafter.

Anastrophe, or returning to the first posture, is the restoring of the wheeling to the place, where the battaile first stood close, before it beganne to wheele. Perispasmos, or wheeling about, is the motion of the battaile in two wheelings, so that thereby the front commeth to the place of the reare. 2 Esperishasmos, or treble wheeling, is the motion of the battaile in three wheelings, so as, when it turneth to the Pike, the front commeth about to the left flanke; when to the Target, it commeth about to the right flanke.

Notes.

Notes.

His Chapter hath a diners kinde of turning from the other mentioned in the last Chapter, which for distinction sake, is called Epistrophe, or wheeling. The other turned no more, then the souldiers faces, enery man yet keeping the same ground; behadbefore. This wheeles the whole body, and changeth the place of the Phalange either to the right, or left band, or to the reare. And as there was in the turning of faces aparticular motion of every particular souldier to the right, or left hand, called Chis, and an other turning about called Metabole : so is there in this a generall wheeling of the whole body to the right, or left hand, called Epiftrophe, and an other wheeling about to the reare called Perispasmos. But let vs heare the description.

Epistrophe (or wheeling) is, when the Battaile] Shortly Epistrophe is no more, then the first turning of the battaile to the right or left hand. In doing whereof first the files must be closed to the hand, you meane to wheele, then the rankes. Then the corner file-Leader on the same hand is to stand still, then all the rest keeping their files, and rankes closed, to turne to the sime hand wintly about the Corner-file-leader circle-wife, who is to move by little, and little, till he have turned his face to that side, which was intended. And when the first ranke is even with him, and the rest wheeled enough to the Same hand, they are to stand still: The words of the definition of Epistrophe (or wheeling) are plaine enough in Ælian; Incede veno exposition. Now because in exercise we relie not upon one forme of motion alone, but acquaint our souldiers with all the kindes; It is necessarie to bring the body againe to the first place, to the end we may proceede in the rest. This reducing to the first Posture is called Anastrophe, by which the battaile returneth, but by a contrary hand, to that, to which the Epistrophe was made. And but for changing the hand the wheeling backe againe is all one with the wheeling forward. Wee shall see hereaster how it is done. To bring the battaile to have the front, where the reare was, you must vse a double wheeling. And that is called Perispasmos. Which commeth of two Epistrophes, and is made cither to the right, or left hand. Onely it must bee observed, that if the Perispasmos (or wheeling about) be to the right hand, the Anastropac (or reducing to the first posture) must be to the left. Contrarie it is if the Perispasmos were to the right hand.

2 Ecperispasmos] I could never hitherto conceiue any vse of a treble whee ing (for so Elian takes the word) unlesse a Perispasinos were first made, and the battaile had the front already brought to the reare, and (o an Epistrophe added from the reare to the Sam: hand. Otherwise seeing that one wheeling is somer made, then two, and therefore Sooner then three, I see no neede of three wheelings, esfecially seeing we may doe that, wee defire with one. For example, let vs wheele our battaile thrice to the right hand, the front will come to be in the place of the left flinke. The same will be performed as well wish one wh eling to the left hand. Et frustra fit per plura, quod potest fieriper pauciora, especially in matter of warre, where the least moment of time often carieth the whole bufinesse. The like may be said of Ecperispasmos to the left hand.

The vse of the motions of wheeling, and double wheeling, is, when the battaile being closed, and the en my comming to affault you in any other one place, then the front , you seeke to bring the best mento fight. For if you be to be charged in two places at once, or more, wheeling helpes little; except it be to turne the front to one enemy, and in that case your onely shift is to turne faces against them, that come to charge, on what side soeuer they come. Examples of these two motions, I meane Epistrophe, and Perispasmos meete Us almost in every Greeke Historie. Of which I will represent one, or swo, especially of the

aPlut.in Pyrrh.

latter; the rather because tractife giveth both light, and life to precepts. 2 Plutarch recounteth, that after King Pyrrhus, had in vaine affaulted Sparta, he was invited by an Arguan named Aristam to receiue Argos into his protection, and that hee marched thitherward with his armie. Arieus the king of Lacedemonia laying ambushes for him, and taking the principall streights, by which he was to passe, charged his reare, wherein the Galatians and Molossians were. When Pyrrhus heard the bruite and noise, he sent his some Ptolomy with the band of Companions to aide, himselfe with all speede marching out of the streights, led on his armie. The medly being sharpe about Ptolomy, and the chosen Lacedemonians commanded by Eualeus standing close to their busines, Oroefus a Candiot of Aptera, valiant of his hands, and swift of toote, running crosse against the young Prince gaue him a deadly stroke and ouerthrew him. His fall made the rest to flie. And the Lacedemonians having the victorie, and following the chase came into the Champian ground still killing but not remembring they were not followed with armedfoot. Vpon whom Pyrrhus, having even then heard of, and being much mooved with the death of his sonne, wheeled about the Molossian horsemen. And himselfe first advancing vpon the spurre imbrued himselfe with the slaughter of Lacedemonians. He alwaies seemed mighty, and terrible in armes; but then he exceeded himselfe in daring and valor. For turning his Hosse vpon Evaleus who shunning him, thifted afide, and with all ftrooke at his bridle hand as he paffed by, and wanted but little of cutting it off. But miffing the hand, he light vpon the raines, and carned them quite a funder. Pyrhus with all strooke him thorough the body with his Launce. Then leaping from his horse, and fighting a foote, hee cut in pieces the chosen Lacedemonians, that fought to recover the body of Eualeus. This was the fight that Pyrrhus made by wheeling about his Horsemen against the Lacedemonians, that followed vpon his Reare. Another example of Wheeling about is reported by Polybius, and it is of Amilear Annibals father, this is the hiltory. The mercenary fouldiers of the Carthaginians revolted from them, and overthrew some of their Generalls, and shut them vp within the Citie of Carthage, possessing both other streights, that led into the Countrey, and also a bridge laide ouer a river called Macar, which river was not passable, but by that Bridge. Befides, they built a City for defence of that Bridge. Amilear feeking to diflodge the enemie from that Bridge, and having no way to come at them conveniently; observed, that when certaine windes blew, the mouth of the river toward the sea was commonly filled vp with fand, and would give passage sufficient for his armie. Finding then a fit time, hee put ouer his army in the night, and before day, or ere any man knew of it, made himselfe Master of the passage; and prefently led against them, that held the bridge. Spendius (hee was one of the chiefe Rebells) hearing thereof, advanced to meete Amilear in the plaine, and both ten thousand from the City at the bridge foote, and fifteen thousand more from Viica, came out one to aide another, thinking to wrappe in the Carthaginians betweene them; who were not aboue ten thousand Souldiers of all forts, and 70 Elephants. Amilear led on his armie. Before were the Elephants, the horse, and light armed followed next, the armed foote came last. And perceiuing the enemie, that followed his Reare, preffed hard vpon him, he commanded his whole armie to turne about. Those that were in the Vangard of the march hee willed to returne to him with speede; the other, that at first had the reare, hee wheeled about, and straight opposed against the enemy. The Libians and mercenaries imagining the Carthaginians fled for feare, fell vpon them disorderly, and boldly came

of Ælian.

to hands. But when they saw the Horsemen, being now turned about, and come vp necreto the soote, and already put in order, make a stand, they themfelues, by reason they looked for nothing lesse, fell into a seare, turning their backes sted presently, as before they gaue on vnaduisedly, and straglingly. And some of them falling vpon their owne people, that were comming on, wrought both theirs, and their owne destructions: othersome were trampled vpon, and trode to death, by the horse, and Elephants, that sollowed the chase. Thus farre Polybius. And thus farre of Wheelings. The sigure, and words of command are reserved for the 32 Chapter, where the manner of wheelings, and returning to the sirst posture is set downe.

Of filing, ranking, and restoring to the sirst posture.

CHAP. XXVII.

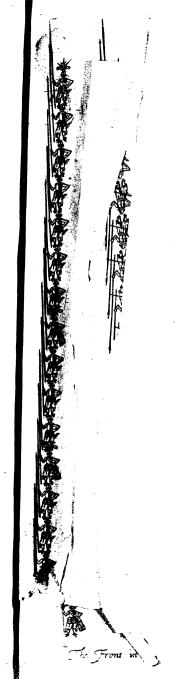
To file is, when every particular man keeping equall distance from other standeth in his owne file lineally betwixt the file-Leader and bringer-vp. To ranke is, to be in a right line even with his sidemen in the length of the battaile. To restore to the first posture is, to bring the sight of the Souldier to the same aspect, he had before the first turning. As if his sace were at first towardes the enemy, being commanded to turne towards the Pike, and thence to returne to his first posture, hee is againe to returne his face toward the enemy.

Notes

F filing, and ranking enough is spoken before. I To restore to the first posture] This motion differeth from Anastrophe before specified. For Anastrophe bringeth backe againe the whole body to the first place after a Whieling: This the Souldiers faces particularly to the first aspect. So that this is used after the making of an Anastrophe. For alwaies in motions it is requisite, that the Souldiers faces moue forward. To move backeward hath many inconveniences of flumblings upon uneuen ground, or stones, or pittes, or stubbes, or such like. Which is the cause that in Anastrophe after a Wheeling, Elian willeth, that the Souldiers turne their faces the contrarie way first, then moue on, till they have recovered their first ground, then open rankes, and files, and lastly to restore to the first aspect. And as it differeth from Anastrophe so differeth it likewise from Metabole. Metabole only turned faces about, this setteth the Souldier in his former posture, not onely for his face, but for his armes, also, which, are ordered as at first. The wordes wherein this motion is expressedby Ælian are Eporthon apodounai, and Eis orthon apocatastesai, which is interpreted by Gaza in arrectum reddere, to restore up right, by Arcerius rectum reddere, to restore right, and so the words sound. Alian interpreteth it to set againe the Souldiers light in the same aspect in which it stood at first : as if being placed with his face against the enemy he be commanded to turne his face to the Pike, and then againe to restore his face to his first posture, he must returne, and set his face against the enemy. Ælian therefore referreth is to the fight, he first had, which if it bee the right meaning, how can it

a Paulan, in Articis 42. b Paufan, in Corinth 80. c Paulan, in Corinth. 87.

be woright, or right, more in that , then in any other posture. For the Souldier not onely in front, but in flanke, and in the reare carrieth himselfe opright, or right. I doubt not. but that it may be applied to the upright flanding of men, as appeareth by fundry places of Paulanias : Whoreberfeth, that Minernas Image fet 2 in the Temple Parthenion standeth upright, orthon esti, and in an other place, that in Corinth b in the Temple Pantition, there were two Images of Mercurie standing upright, Ortha, and that in the Temple of Fortune the image of Fortune was carued of Parian-stone, and stood voright: Orthon: and that in Neptunes Temple stuate in the Corinthian Ishmus. the images of Amphitrite and Neptune stand in a Chariot, and the boy Palemon voright voon a Dolphin, Orthos. In all which places Orthos designeth the fite of men. But here, as Itake, it cannot be so applied. Because in every motion, not onely in this, the men fland voright. How then can they be reflored to their flanding wpright, when they doe it already. Itake the originall of the appellation to come from another cause, and that is from the ordering of the Pike. For when the battaile is first set in the field, euery Souldier standes with his Pike ordered, that is vpright. For to order a pike is to fet the butt end on the ground before the Souldier Comewhat wide of his right foote, and to hold it upright with the right hand borne even with the shoulder. But when you beginne, or continue any motion, the manner is to advance, or to shoulder the Pike, and loto proceede. But being commanded to returne to the first posture, it must bee ordered againe. So that the first posture of an armed man is to stand with his pike vpright. And after many motions and windings, he at last returneth to the same posture. which I take the command of Ep'orthon apodounal to lignifie. Now that I may not feeme to relie upon a probable consecture alone, I will bring witneffe for the confirmation d Died. Sicul. of my opinion. It is reported by Diedorus Siculus, that Agelilaus the Lacedemonian King with an armie of eighteen thousand foote, and fifteen hundred horse, inuaded Baotia. The Athenians before hearing of Agesilans comming had fent flue thou fand foote, and 200 horfe to aide the Thebans, who gathering their armie together seized vpon a long narrow hill distant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard vpon euen ground in regard of the renowne, and glory of Agesilam. Agesilam, having imbattailed his troupes, led them against the Bæstians; and approching neere, sent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by the aduan age of the higher ground, hee aduanced the rest of his forces being imbattailed in such manner, as might give greatest terror. Chabrias the Athenian willed his Souldiers to awaite the enemy contemptuously both keeping their first array, and their Targets at their knees, and continuing their Pikes opright ordered; who when they jointly as voon a word given, did as they were commanded, Agefilam both wondering at the good order, and at the assured fashion of the enemy thought it not fit to ftriue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hitherto Diodor Sicul. of the Strategem of Chabrias against Agesilaus, which consisted in the contempt of Agefilaus, and all bis forces: First in not thirring one foote, to meete the enemy, then in keeping the array they held before; further in fincking their Targets to their knees; Lastly in continuing the former order of their Pikes, that is not making readyto charge, but remaining with their Pikes ordered, as they were at firft. Agesilaus advancing his armie thought to strike a feare into his enemie; Chabrias trusting to the firenzth of the place, scorned the Brauado of Agesilaus, conceining, he would not be so hardy to admenture the fight woon fo great an inequality of ground. He therfore willeth the



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be opright, or right, more in that , then in any other posture. For the Souldier not onely in front, but in flanke, and in the reare carrieth himselfe upright, or right. I doubt not, but this it may be applied to the upright flanding of men, as appeareth by Sundry places of Paulanias : Whoreberfeth, that Minernas Image fet a in the Temple Parthenion Standeth voright, orthon efti, and in an other place, that in Corinth b in the Temple Pantheon, there were two images of Mercurie standing woright, Ortha, cand that in the Temple of Fortune the image of Fortune was carued of Parian-stone, and stood wpright, Orthon: and that in Neptunes I emple fituate in the Corinthian Ishmus, the images of Amphitrite and Neptune stand in a Chariot, and the boy Palemon upright vpon a Dolphin, Orthos. In all mbich places Orthos designeth the fite of men. But here, as Itake, it cannot be so applied. Because in every motion, not onely in this, the men stand vpright. How then can they berest ored to their standing wpright, when they doe it already. Itake the originall of the appellation to come from another cause, and that is from the ordering of the Pike. For when the battaile is first set in the field euery Souldier standes with his Pike ordered, that is vpright. For to order a pike is to (et the butt endon the ground before the Souldier somewhat wide of his right foote, and to hold it upright with the right hand borne even with the shoulder. But when you beginne, or continue any motion, the manner is to aduance, or to shoulder the Pike, and foto proceede. But being commanded to returne to the first posture, it must be ordered againe. So that the first posture of an armed min is to stand with his pike vpright. And after many motions and windings, he at last returneth to the same posture, which I take the command of Ep' orthon apodounai to lignifie. Now that I may not feeme torelie upon a probable consecture alone. I will bring witnesse for the confirmation Died. Sicul. of my opinion. It is reported by Diodorus Siculus, that Agesilaus the Lacedemonian King with an armie of eighteen thouland foote, and fifteen hundred horse, inuaded Baotia. The Athenians before hearing of Agefilans comming had fent flue thousand foote, and 200 horse to aide the Thebans, who gathering their armie together seized vpon a long narrow hill distant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard vpon euen ground in regard of the renowne, and glory of Agestlam. Agestlam, having imbattailed his troupes, led them against the Bastians; and approching neere, sent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by the aduancage of the higher ground, hee aduanced the rest of his forces being imbattailed in fuch manner, as might gine greatest terrer. Chabrias the Athenian willed his Souldiers to a waite the enemy contemptuously both keeping their first array, and their Targets at their knees, and continuing their Pikes upright ordered; who when they jointly as voon a word given, did as they were commanded, Agefilaus both wondering at the good order, and at the affured fashion of the enemy thought it not fit to firiue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hitherto Diodor Sicul. of the Strategem of Chabrias against Agelilaus, which consisted in the contempt of Agelilaus, and all bis forces : First in not firring one foote, to meete the enemy, then in keeping the array they held before; further in fincking their Targets to their knees; Laftly in continuing the former order of their Pikes, that is not making readyto charge, but remaining with their Pikes ordered, as they were at first. Agesilaus advancing his armie thought to strike a feare into his enemie; Chabrias trusting to the firength of the place, formed the Brauado of Agefilaus, conceining, he would not be fo hardy to admenture the fight upon fo great an inequality of ground. He therfore willeth the

Cap 28 Je MCaeedonran Countermae're by file The Countermarche in action

The front after Countermanche

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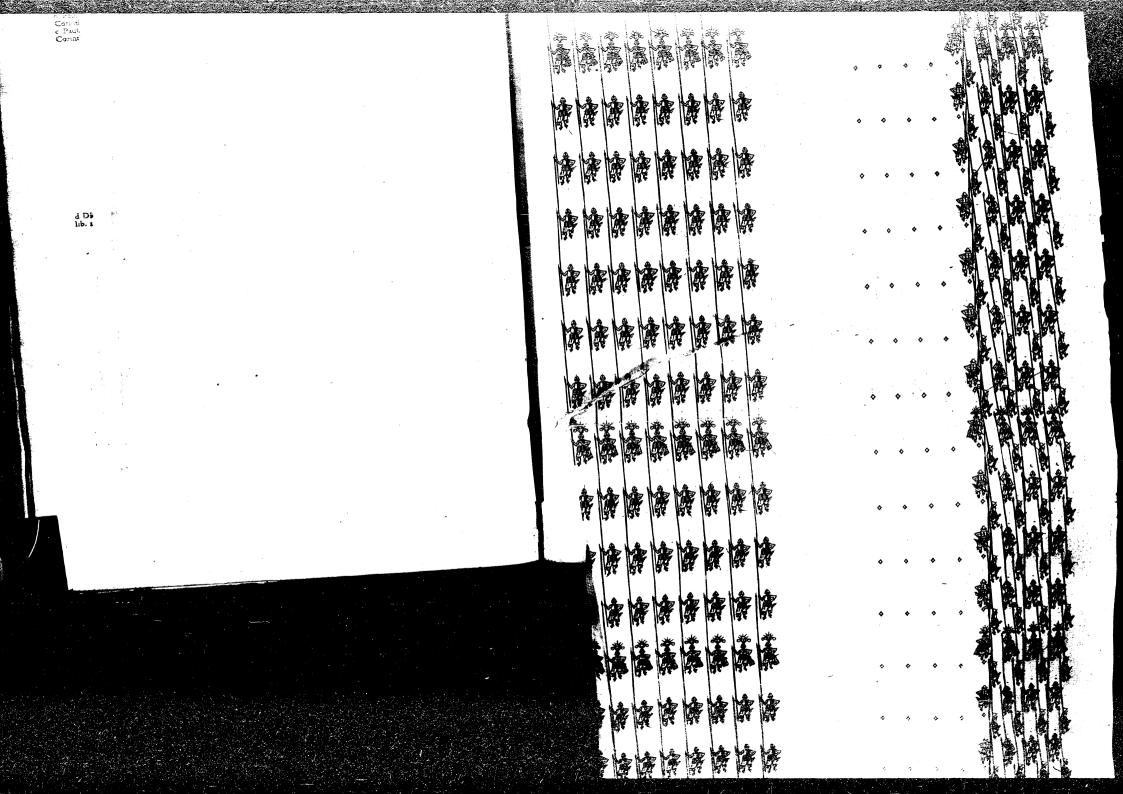
The Front in the first standing

The front after Countermarche

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diers not to alter their posture, but to continue as they were. The words concerning the Pike are: En ortho to dorati menein. That is to continue their pikes vpright (En ortho) Now whether the same be the posture, that the Tactick's describe, when they Beake or restoring Ep' ortho, vpright, Ireferre to the indgement of the Reader. 2 Po- b Polvenlib. lixnus remembring this Stratagem Weth Comerchat different words, and act confenteth in Agelliao. in meaning. Chabrias (aith he, commanded his Souldiers not to runne out againfi the enemy, but quietly to fland fill holding their pikes before vpright, and their Targets before their knees which they were wont to doe, when they would a little ease themselues of the weight of their Targets. Where Diodore, bath en ortho to dorati menein, to continue their Pikes vpright. Polienus hath protinomenous ta dorata ortha, holding before them their Pikes vpright. But both have pikes vpright and Diodorus his Continue hath relation to the Posture they were in, which Chabrias would not have them to alter: Policius his hold before to that they were commanded to doe. In ordering of Pikes at this day I have shewed, that the Souldiers hold them upright, the but end fet on the ground before, and somewhat wide of their right foote. * Æmilius Probus recitine this historie peruerteth the Stratagem: Hie faith that Cha. b Æmil. Prob. brias forbad the Phalange to giue backe, and taught his Souldiers to receive the in Chabria. enemies charge kneeling with one knee, the other fet against the Targer, and with the Pike abased. Wherein hee quite dissenteth from Diodore, and Polien. Diodore (aith the command was to keepe their array; Polienus not to runne forward, but quietly to stand still; Probus not to giue backe. Probus saith, they should kneele with one knee, and rest against the Target with the other; Diodore that they (bould hold their Targets sunke to their knees; Polienus that they (bould carry their Targets before at their knees. Probus that they (hould abase, and charge their Pikes; Diodore that they (boald continue, and order them vpright; Polien that they Should hold their Pikes vpright. So that Diodore and Polien agree, and expound one another : Æmilius Probus bringing in a new historie dissenteth, as I Said, from the other two; especially in making that to be a forme of fight prescribed by Chabrias (a sample forme to receive the charge woon their knees) which was a contempt, to shew how little, especially in that strength of ground, be regarded Agesilaus; which contempt also made Agesilaus retire, not doubting but it proceeded from a great assurance of the enemy. Therfore as I faid I take these words ep' orthon apodounai not only to appertaine to the aspect of the Souldier, but also (and that much rather) to the erection, and ordering of Pikes.

Of Countermarches, and the divers kindes thereof, with the manner how they are to be made.

CHAP. XXVIII.

Here are two forts of Countermarches, one by file, the other by ranke; each of these againe is divided into three kindes. The first called the Macedonian: The second the Lacedomonian: The third the Choraan, which is also the Persan; and the Cretan. The Macedonian is that, which leaving the ground, it sink had, taketh in liew thereof the ground, which was before the front of the Phalange, and turneth the aspect of the Souldier backeward [where before in was forward.]

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2 The Lacedemonian is that, which leaving likewise the ground it first had. taketh in steed thereof, the ground which was behinde the Reare of the Phalinge. and turneth also the face of the Souldier the contrary way.

The Persian is the Cretan, and Choraan: This keepeth the same ground of the Phalange, euery souldier taking another place for that, he had, the file-Leader the place of Bringer-vp, and so the rest in order; and turneth also the sace of the Souldier the contrary way.

4 Countermarches by ranke are made, when a man would transferre the winges into the place of the Sections; and the Sections into the place of the wings, to the end to strengthen the middest of the battaile. Likewise the right hand parts into the left hand parts, and the left hand parts into the right hand parts. They that feare to countermarch the Phalange in groffe the enemy being at hand, doe it by Syntagmaes.

I will now set downe, in what manner countermarches ought to be made.

The Micedonian countermarch by file is faid to be, when the file-leader turneth about his face, and all the rest with the Bringer-vp go against him on the right, or left hand, and passing on to the ground before the front of the Phalange place themselves in order one after an other, according as the file-Leader himselfe hath turned his face. Therefore it maketh shew to the enemy appearing in the Reare, of running away: Or it is when the file-Leader turneth about his face, and the rest passing by him on the right or left hand place themselves orderly one behinde

But the Lacedemonian is, when the Bringer-vp turneth his face about, and all the rest turning also their faces, and proceeding forward together with their file-Leader order themselues proportionably in the ground, which was behinde the Rearcof the Phalange. Wherefore to the enemy appearing behinde, it makes a semblance of falling on. Againe the Lacedemonian is, when the file-Leader turning his face about to the Pike, or Target transferreth the whole file to another place equality the first; and the rest following stand, as before, behindehim. Or elfe, when the Bringer-vp turneth his face about, and hee, that Rood next before him, passing by on the right or left hand, is placed againe next before him, and the rest following are placed one before another in their former order till the file-Leader be the first.

The Cherain is, when the file-Leader turning about toward the Pike, or Target, precedeth the file, and the rest follow, till the file-Leader haue the place of the Bringer-vp, and the Bringer-vp the place of the file-Leader. And these are the Countermarches by file.

In the same manner are Countermarches made by ranke in case a man would countermarch by ranke. For enery ranke Countermarching either keepeth the same ground, or changeth the right hand place, or else the left hand place, of the battaile, one of which must needes fall out, and neuer faileth.

Notes.

He two former motions are performed, one in close Order, the other in all Orders; Epistrophe when the battaile is shut so close, that (as Ælian saith) a man can turne bu face neither the one way, nor the other. Chilis in open Order, Order, and close Order. See Leo cap.7. The two of following motions, Countermarch, and Doubling, one is done in open Order, the other for the most part in open order too; and yet sometimes in Order, and

close order; as we shall see in due place. This Chapter handleth Countermarches, the next Doublings. Countermarch is a motion, whereby every fouldier marching after other, changeth his front for the reare, or one flancke for the other. For there are two kindes of Countermarches, one by file, and the other by ranke. And each of shese is againe divided into three; the first called the Macedonian; the second, the Lacedemonian; the third the Chorwan, or Creran. A Countermarch by file is, when every souldier followeth his Leader of the same file; By ranke, when every Touldier followeth his sideman of the same ranke in the Countermarch.

1 The Macedonian Countermarch] inthis Countermarch, the purpose of the Commander is to turne the front of his battaile against the enemy that sheweth himselfe in the Reare; and withall to take the ground that lyeth before the front of the Phalange. It is called the Macedonian Conntermarch (faith Elian) because the Macedonians were the inventers of it. Which of the Macedonians he telleth not, but excludeth Philip, and Alexander, who both wfed the Lacedemonian Countermarch. And before their times I have not read of any warlike Kings of Macedonia The manner of it is this; First all the File-leaders turne their faces about either to the right or lest hand; then the next ranke passeth thorough by them on the same hand; and being come to their distances, place themselves directly behind their File-leaders, and then turne about their faces the same way. Ana so the third ranke after them, and the fourth, and all the rest, till the Bringers-up be last, and have taken the reare of the battaile againe, and turned about their faces. The figure expresseth not well the action. For in it the Bringers-up begin first to countermarch, which according to Elian should move last. Tet may this Countermarch be done, as the figure is. But I take Elians way to be easier, and readier. And it may be also, that the Countermarch expressed in the figure is lost in the text. For one of the Lacedemonian Countermarches, which proceedeth the comrary way, beginneth the motion with the File-leaders, as this doth with the Bringers-up, as wee shall straight see.

2 The Lacedemonian countermarch In this Countermarch the proceeding is contrary to that of the former; that tooke the ground before the Phalange, this takes the ground after. In that the mouing was from the Reare to the front, in this from the front to the reare. This is the invention of the Lacedemonians. Ælian describeth it to be done in two manners: One, when the Bringers-up first turne about their faces, and the next See Leo Cap. 12. ranke likewile turning faces beginneth the Countermarch, and every manthereof placeth \$ 95. himselfe directly before his Bringer-up, and the third doe the like; and so the rest, till the ranke of the File-leaders come to be first: The other, when the File-leaders begin the Countermarch, and every one in their files follow them orderly. The figure expresses this last. Elian preferreth the Lacedemonian Countermarch before the Macedonian: because in it the souldiers seeme to fall on, and got to the charge; where in the Macedonian they Seeme to flie. There are not with flanding times, when it is better to wee the Macedonian. As in case you meane to march on, and not to fight with the enemy, except you be compelled: Or else you seeke to gaine some ground of aduantage. For the Macedonian contimust fill the march, and flayethnot; the Lacedemonian returneth upon the enemy, and so looseth ground in marching. Agesilaus after victorie gotten ag linft the Argives, against whom he stood in the right winge, hesting that the Thebans had beaten the Otchomenians in the left winge, vied the Lacedemonian Countermarch against them. The words of x Xenophon found thus: Here the strangers were about to crowne x Xenoph biff. Agestlaus (thinking he had got the victory) when newes was brought that the grac. lib.4. Thebans, after they had broken the Orchomenians, had forced a passage as farre as \$19.C. the baggage. Then Agesilaus, countermarching his Phalange; led against them.

Xcnoph, hift. græc lib. 6.

The Thebans perceiving their Confederates were fled up to the mount Helicon, clofed their troupes together, as neare as they could, feeking to open a way by force. and to get up vnto them. Agefit us albeit he might by giving way to the formost haue followed them at heeles, and charged the reare, yet did he it not, but mer the Thebans front to front. Thus encountring, and clashing their Targets together they fought, thrust on, killed, and were killed. In fine some of the Thebans broke thorough to Helicon; other some, as they sought to escape, were left dead on the place. Agefilaus here followed the chale upon the Argives toward the mount Helicon: The Thebans woon the Orchomenians the contrary way towards the enemies Campe. The Thebans leing their confederates fled to the mount Helicon, returned toward them, Agefilaus countermarched to meete them, met them, and fought with them. For the Countermarch he weed, I make account it was the Lacedemonian, himselfe being a Lacedemonian. And he veed it to meet the Thebans branely in front. The fame Agesilaus, after he had by night incamped in a peece of ground behind Mantinea incompaffed about with mountaines, perceiving the next morning, that the Mantineans gathered together vpon the toppes, that lay right over the head of his Rearegard, determined to lead his Armie out of the place with all speed. Now if himselse should lead, he seared the enemy would give vpon his Reare. Therefore standing still, and turning his armes against the enemy, he commanded the last of the Phalange to march backe againe from the Rearc, and come up to him; and fo at once he brought his Armie out of the streights, and made it by little, and little stronger. When the Phalange was thus doubled, he proceeded in that order into the Champeigne, & there againe reduced the depth of the armed foote to 9 or 10 men in every file. This place of Xenophon, if it be not corrupted is very obscure. And I cannot tell whether to take it for doubling of the front, or the Macedonian countermarch. The words make for a doubling. For Xenophon faith plainely, the Phalange was doubled. Besides he addeth, it was made by little and little stronger; which could not be done with a Countermarch. And that a deepe Phalange, or Hearfe, (such as this by the evenings march, and the straights it entred, seemeth to be) is made stronger by doubling the front, there is no question. On the other side, the streights, thorough which it was to passe, perswade me, it should be a Macedonian Countermarch. For in doubling the front the length still increaseth; & the manner is not to inlarge, but to extenuate the front, when an Armie is to be conveighed the rough a narrow place. And Xenophon Saith expresty, that Agesilaus led it thorough the streights into the Champeigne in that order, to which it was reduced last; & that in the Champion the depth of the Armed was lessened, and brought to 9 or 10; for there Agesilaus imbattailed his Phalange to receive the enemy, if he would charge. And in a march through straight waies the front is commonly narrowed, and proportioned to the way; but in open ground the Phslange is againe brought to the suft length. So that it seemeth the depth was much, before is came into the plaine; because in the plaine it was brought to 9 or 10 men, and therefore no doubling. Lastly Agefilaus, (and the front I doubt not of the Phalange with him) turned face to the enemy, before the Reare came up to him. which is done in no other motion than the Macedonian countermarch. In which all the File-leaders first turne about their faces toward the enemy, and then the whole battaile marcheth against the File-leaders, and placing themselues orderly behind them, turne their faces the same way, that they have done before. Now where it is in Xenophon, that Agefilaus having gained the Champeigne, extended his Armieto 9 or 10 Targeteres, I suffect a fault to be in the number of 9; and that it ought to be read 8 or 10. To extend a Phalange is so draw it out in length. the length is the space beswint the point of both wings. When he saith he extended it to

10, the meaning is he drew it out so farre in length that he left but 10 in depth. Ten is the decas, whereof I spoke before, and I have likewise noted, that the Lacedemonians for the most part, made the depth of their battaile 8. The number of 9, as all other wneven numbers, was rejected by the Tacticks, as unfit for doublings. So that mine opinion is that Xenophon at the first wrote 8 or 10, not 9 or 10, how locuer 9 be crept into the place of 8. But to returne to Agelilaus, admit he vied doubling of ranks, or of the from in retiring out of the Mantingan straights, yet give me leave to be of opinion, that the Macedonian Countermarch had beene the fittest motion for that purpofe. For himselfe being thereby cast in the reare, he had both prevented the charge of the enemie (which he feared) and yet wounde better out of the straights, the long Hetle, which still remained in the Macedonian Countermarch, being more proportionable to iffue out of a narrow place, then a broad-fronted Phalange, which arifeth out of doubling the front.

3 The Persian is the Cretan or Chorwan] This Countermarch is called the Perlian, and Cretan, because it was wied amongst the Perlians and Cretans. And it was termed the Chorgan also, of the similitude it had with the solemne Gracian dances upon stages; the company, that shewed themselves in such dances being called Chorus. Who in their daunces ordered themselves into files, and ranks, as soulaiers doe in battaile; and mouing forward to the brinke of the stage, when being straightned by the place, they could passe no further, they retired one through the ranks of the other, exceeding not the bounds of the place, as is done in this Countermarch. The other two kinds of Countermarch changed the ground, they had before. The Macedonian tooke the ground before the front; The Lacedemonian the ground after the reare. The Chorwan boldets the same ground, & beginneth the motion with the File-leaders, who notwithstanding proceede no further, then thisher, where the Bringers-up stood, their files following them; & enery souldier keeping the same distance, he had before the moning. The figure shewes the manner of it. h These Countermarches by file, are to be made, when the enemy appeares h Xenoph. de in the reare, and commeth to charge vs. And they are made to the end, to bring our best sep. Lucedem. men, that is the File-leaders, to the incounter. Whereinnot withflanding there is a caution 686. E. to be held, that if the enemy be very neare, or so neare, that we cannot conveniently coun- see led cap. termarch, before he come up to us, we forbeare, lest we fall into disorder, and in disorder 18.5.39. be easily defeated. In which case the best remedy is to turne faces about, and so receive him.

Hisherto of Countermarches by file.

4 Countermarches by ranke are made 7 The ends of Countermarches by ranke are two in Elian: one to strengthen the middest of the battaile; the other to strengthen the wings. If the strength of the enemies bastaile, he most in the middest, reason of Warre would, that we should oppose our greatest strength against the middest. If in the wings against the winges. There is an other cause of strengthning the winges, namely if the enemy be ready to charge either of them: and this strength Elian would have given by the Countermarch of our best men into the winges. It shall not be from the purpose to make all plaine by an example or two. Herodotus reporteth, that before i Herodotin the battaile of Platza betwixt the Grzcians, and the Persians, it was agreed be- & Plutarch, m twixt the Athenians, and Lacedemonians, that where the Athenians had van- Arithde. quished the Persians in the battaile of Marathon, and had lately slaine Massitius the Generall of the Persian horse; and by those incounters had good experience of the Persian manner of fight; and where the Lacedemonians were imbattailed in the right wing against the Persians, the Athenians in the lest wing against the Thebans, and other Gracians, that tooke part with the Persians: they should change, and the Athenians have the right wing, the Lacedemonians the left.

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These newes were caried to Mardonius the Generall of the Persians; who whe. ther fearing the Athenians, or desirous to fight with the Lacedemonians, changed his place from the left into his right wing, to the intent to oppole against them : which when Paulanias law, he returned to his right wing, and Mardonius to his left, the place, which he had at the beginning. Here are changing wines on both parts; The one coueting to fight in the left wing, the other desirous to fight in the right. The Countermarch by ranke from the right wing would have futed Pausanias: as the contrary Countermarch would have fitted Mardonius. Tet am I led to thinke that Paufanias vsed a wheeling of his battaile, and so conveighed it from one wing to an other behind the battaile of the other Gracians, to the end, that being hadowed by them, bee might the better hide his purpose from Mardonius. Another example I finde in Live k Liv. decad.3. and Polybius both. It is this: k Pub: Scipio, who was afterward called Africanus, and Afdraball the sonne of Gisgo, being incamped neare together in Spaine brought daily out of their Campes their Armies one against an other. And after they had long stood waiting, who should begin the fight, which was done at neither hand, they conveighed them backe againe. The manner of their imbattailing was this. The Romans, and likewise the Carthagineans mingled with the Africans, had the middle, their Confederates the wings. The opinion was they should fight in that order. Scipio when he perceived this to be firmely beleeued, the day before he ment to fight, made an alteration of all. When night came, he gaue the word thorough the whole Campe, that horse, and men should dine, before it was light day, and that the horsemen in Armes should keepe their horses bridled, and sadled. The day was scarse sprunge, when he sent his horse, and light-armed to beat in the Carthaginean Gardes, himselfe streight followed with the armed Legions; disposing the Romans (contrary to the settled opinion of his owne people, and of the enemy) in the wings, and receiving the Allies into the middeft. Afdrubal raised out of his bed with the cry of his horsemen, had no sooner leaped out of his Tent, and seing the tumult before the trench of his Campe, and the amazednes of his people, and the Ensignes of the Legions shining a farre of, and the field full of enemies, presently sent out his whole power of horse to vndertake the Roman horse. Himselse issued out of the Campe with his foote, not changing any thing of his wonted manner of imbattailing. The fight of the horsemen had now a long time beene doubtfull, and could not bee tried, because still, as they were beaten (which hapned a like to both) they found a safe retreat within the battailes of foote. But when the Armies were come within 500 paces one of an other, Scipio giuing a signall of Retreat, and opening his battaile, received all the horse, and light-armed into the middest, and dividing them into two parts, placed them as seconds, behind the wings. Now when time was come to begin the fight, he commanded the Spaniards, who had the middle ward, to march on leasurely, and sent a messenger from the right winge (for hee commanded there) to Syllanus and Martius, willing them to aretch out the left winge, as they saw him stretch out the right; and to charge the enemy with the light-armed, and horse, before the middle wards might be able to come vp, and ioyne. The winges being thus stretched out, they led with all possible speed three Cohorts of foote, and three troupes of horse a peece, against the enemy, besides the light-armed, and those that were received into the Reare, who sollowed a thwart. There was a great empty space in the middest, because the Enfignes of the Spaniards came flowly on. And now the wings were in fight, when the old souldiers Carthaginians and Africans, the strength of the Armie, were

not yet come to vie their darts, neither durst they runne into the wings to helpe them, that fought for feare of opening the middest of the battaile to the enemy. who was comining on against them. The winges were pressed with a double medley. The Horse, light-armed, & Velices, wheeling about their Troupes, charge theil flanks. The Cohorts pulhed on in front, to the end, to breake of the wings from the body of the battaile. And the conflict was vnequall both in all other respects, and especially because a rable, as it were of drudges, and vntrained Spaninds, were opposed against the Roman and Latin souldiers. The day being now farre spend, the Armie of As druball oppressed with the mornings tumult, and compelled to take the field, before they had strengthned their bodies with meat, began to faint, and faile in strength; which was the reason that Scipio lingered out the day, & made the fight somewhat late. For it was past the seuenth houre. before the winges of foote attached one another: and yet the fight came later to the middle wards. So that the scorching heat of the fouth-sume, and the labour of flanding armed, and hunger, and thirft, first afflicted their bodies, before they came to hands with the enemy. Therefore they Rood leaning vpon their Targets, and being weary both in body, and minde, they gaue backeat laft; keeping notwithstanding their array no otherwise, than as if the battaile being yet entire, had retreated at the commandement of the Generall. But when the viflors, perceiuing them to shrinke, so much the more eagerly pressed on, the brunt could hardly be indured any longer. And although Afdrubal restrained, and stopped them, that gaue ground, crying that hills and a safe place of retreat was at their backs, if they could be but intreated, to retire easily; yet seare ouercomming shame, and the enemy killing them that were next to hand, they forthwith turned their backs, and vniuerfally powred out themselues into flight. This firatagem of Scipio resteth principally in shifting his best men (the Romans) into the winges; the Spaniards his worst into the middest, and in keeping the Spaniards aloofe from loyning; and in hasting to try the day with the Romans against the weakest of the enemy. Asdrubals way to meete with this stratagem had beene to countermarch by ranke halfe his Carthaginians, and Africans into one winge, and halfe into the other. And by that meanes his Spaniards should have had the middest against the Roman-Spaniards, and his old fouldiers Carthaginians and Africans beene opposed in the wings against the Romans, and Latins, and the advantage eluded, that Scipio

As the Countermarches by file were of three kindes, so are the Countermarches by ranke; nanely the Macedonian, the Lacedemonian, and the Chorean. The Macedonian beginneth to move at the corner of the wing, which is nearest to the enemy, the enemy appearing to either slanke. And therefore incorreth the same imputation, that was laid upon the Macedonian countermarch by file; as seeming to runne away, because it of smarcheth from the enemy. Tet is there use of it, as well as of that by file. For by this countermarch you may set the strongest part of your Armic against the enemy, and apply the weakest to some Riser, Lake, hill, or such like, so that the enemy can not come to incompasse it. It taketh the ground that byth on the side of the contrary wing. The Lacedemonian taketh the ground that lieth on the side of that wing, which is toward the enemy, and bringeth the best men to be formoss against the enemy: And therefore beginneth the moving on the contrary side. The use of it is, when your forces are such as are able to incounter the enemy, and you desire to bring your best men to fight. The Chorean keepeth the same ground, the battaile had at suff. or bringeth one wing to pesself the place of the other; Or else the Sections to posself the place of the wings, as might baue

been

The Tacticks

beene done in the last example cited concerning Scipio and Asdrubal. The manner of countermarch by ranke is contrary to the countermarch by file. In countermarch by file the motion was in the depth of the battaile, and either the front removed toward the reare, or the reare toward the front, and tooke one an others place. In this the motion is in length of the battale flanke-wife; the wing either marching into the middelt, or elfe cleane thorow to the other wing. In doing it the fouldiers, that stand vetermost in the flanke of the wing, must move first to the contrary wing, and the rest of every ranke severally follow them in order, The figure will hew the manner of the motion. Patritius veterly mistaketh the countermarch by ranke; and groundeth himselfe upon a wrong principle, namely that in all Countermarches the File-leaders must march toward the reare, and the Bringers-vp towards the front. And therefore in changing the winges into Sections, he makes the winges to fall of behind in the reare (the File-leaders wheeling about) and there to ione themselves as neare, as the middle Section will give leave, and the Sections falling backe likewise, to toyne themselves to the flanks of them, that were the wines. Whereas the nature of this Evolution is clearely to leave the Fileleaders in front, and Bringers-up in reare, as they were at first. And albeit the File-leadersthenchange their places, yet change they their place with none, but with File leaders, and the change is, but a change of hands, the right hand for the left, or the left hand for the right. For whereas the File-leaders of the right wing had before the right hand, now in countermarch by ranke, being transposed to the left wing, they have the left hand of all the rest of the File leaders ; as likewise the Bringers-up of the other bringers-up.

The words of Command may be thefe,

For the Macedonian Countermarch by file.

File-leaders turne your faces about (to the right or left hand).

The rest of enery File passe thorow in order one after another, and place your selves at your distances after your Leaders, turning your faces about; and so stand.

For the Lacedemonian Countermarch by file.

The first manner.

Bringers-up, turne your faces about (to the right or left hand.)

The rest turne your faces about and beginning at them, that are next to the Bringers-up, countermarch and place your selues in your distances before the Bringers-up, and one before an other till the File-leaders be surse.

The second manner.

File leaders, countermarch to the right, or left hand, and let every mans file follow bim, and keepe true diftance.

For the Chorean countermarch by file.

File-leaders, countermarch to the place of the Bringers-up, and fland, and let your files follow you keeping their diffance.

For the Macedonian countermarch by ranke.

The right or left hand corner file, turne your faces to the right, or left hand.

The rest of each ranke, passes the rough to the right, or left hand; and place your selves or derly behind your side-men keeping your distance.

For

Cap 29

Dobbing of Rankes

The from of Dalling of Range

For the Lacedemonian countermarch by ranke.

The first manner.

The corner file, where the enemy appeareth, turne your faces to the right or left hand; The rest of ech rankes turne your faces, and passe thorough, (to the right or left hand) and place your selves before your side-men orderly keeping your distances.

The fecond manner.

The right or left wing, where the enemy appeareth not, countermarch to the contrary wing, and all in the Ranks follow enery man his side man; keeping your distance.

For the Chorzan countermarch by ranke.

The vitermost corner file of the right, or lest wing, countermarch mie the place of the And the rest follow ranke wife keeping their distance.

Of doubling, and the kindes thereof.

CHAP. XXIX.

Here are two kinds of doubling, one of Rankes, the other of Depth, or files: and either of these double the number, or the place. 3 The length is doubled in number when of a front of 124 files we make a front (keeping the same ground) of 248 files, by inserting in the spaces betwixt file and file, some of the followers, that stood in the depth. This is done to the end to thicken the length of the battaile. If we lift to recall them to their first posture, we are to command those, that were inserted, to countermarch to the place, they had before.

? There are, that mislike these doublings, especially the enemy being at hand; and would have a thew of doubling made, without indeed doubling the Phalange already ordered, by stretching out the light-armed, and the Horfe, on both sides of the wings of the Battatle. 5 The vie of doubling the length is, when either we would ener-wing the enemy, or else our selues feare to be ouer-winged.

The Depth is doubled by inserting thesecond file into the first; so that the Leader of the second file beplaced next behind the Leader of the first file, aud the second man of the second file be the fourth man of the first file, and the third man of the second file be the fixt in the first file, and so forth the rest, till the whole secondfile be ingroffed into the first; and likewise the fourth file into the third, and all the euen files into the odde.

Doub ing of the Depth by Countermarch is made, either when the next fide files in several [as in the former example the second, and the sourth, and the rest of the euen files] countermarch to the Reare, and place themselves behind the Bringersup of the odde files; or ele the files remayning in their first place, and number, halfe of them, dividing themselves from the other halfe, countermarch likewise to the Reare; and conveying themselues behind the other, there order themselues, and so double the depth of the Phalange.

If we would returne them to the first posture, we must recall those, that were conveyed to stand behind, to the place they had before the Countermarch.

Notes

 T_i 2.

Notes.

"HE former three Motions alter not the forme of the Phalange. For whether you turned faces, wheeled, or countermarched the Phalange, the depth and length remained one. The motion to be expressed in this Chapter induceto an other shape to the Phalange; and maketh it seeme a different body from that it was before, being by Doubling extended either in length or in acpth. For Doubling the number of men, or the place of the Phalange in front, maketh the length twife as much, and doubling the lame in flanke maketh the depth double to that it was before. For Doubling is nothing elfe, then making a military body twife as long, or twife as deepe, as it was before.

I There are two kindes of doubling] The Doublings are either of length n Suidas in it or depth; Or (w' ich is all one as a Suidas faith) of ranks or files. For ranks stretch word Diplatia- out in length, files in depth. And these againe are divided into two other kinds, the

2 Doubled in number or place \ That which is here called number, is called elseo Suidas inthe where persons; or o (by Suidas) men. It is called persons in the Insertion which is word D.p. chiam ande to Alian, I know not by whom, in the precedent Chapter of Countermarches. Which because it lay thrust in betwixt the description of Countermarches, and nothing perteined to that argument, I never made doubt, was crept into the text. And lam rather confirm d in my opinion, because I fan it notea with an Asteriske in that Elian (being of Robortellus Edition) which the learned Haack Cafaubon had quoted, and purposed to fet forth, if untimely d'ath had not provented im. I will here fet downe the words, because they differ not much from Elian, and may give some light to the manner of Doubling. It is to be understood (so are the words) hat a Phalange is doubled in persons, or place. when we therefore take halte the fouldiers from the Depth, and making files of them, place them even with the rest in length of the front, so that of 124 files we make 248, this is Doubling of persons. In like fort we double the place with 124 files (not increasing the number) but onely commanding some to turne to the Pike, some to the Target, till the Phalange be firetched out to a convenient length, as from 5 furlongs to 10. In the same manner is the depth doubled. For either one file is inserted into an other, man for man, so that the second File-leader becomes the follower of the first, and the second man in the second file, the follower of the second in the first file, and so the rest: Or else 16 men are so extended, that they hold as much ground in length, as 32 vsuallydoe. So farre the infertion. It followeth in Elian.

3 The length is doubled in number When the front hath twife as many files, as it had before, this is Doubling in number, or in men, or in perfons. For the perfons, or men, make the number in the files. And the files carrying an even depth of men, and being doubled, double the number of the front, or Inch. Elinn beaketh but of one kinde of doub! no, namely of number, and that must be done in open order, as I said before. For the files of 16 standing in open order if you command the Middlemen (as we terme them at this day, they were called in the Macedoman files the third Enomotarchs) to double their ranks: These middle men with the hinder halfe file march up to the front, & so doubling the front in number leave yet the same measure of length. The figure showeth how it is dore. Yet are there two other water, when the Phalange flandeth in close order both which double the number, and place. One is when the Middlemen divide themselues, and one halfe with their followers turning their faces march out of the right flanke: The other of the left flanke of the Phalange. And then turning their faces againe,

seeme up and toyne themselves in an even line with the File leaders in front; The other when all the Middle turne their faces one way and march out with the r followers beyond one flanke right or left; and turning faces againe fleeue up to the front, and fland even with the File-leaders. One of thefe is done, when we defre to enlarge both the wings of the Phalange: the other, when but one wing. Of thefe two last waies, I have fet downe no figure, because I finde themnot expressed in Elian. Cleandridas the Lacedemonian, wfed yet an other kinde not spoken of by Elian. " Policnus telleib the flory thus : n Polyenlib .. Cleandridas making watte vpon the Thurians, having halfe as many men againe, in Cleandrida as they conceiving if they had intelligence hereof, they would hardly had be as they, conceiuing if they had intelligence hereof, they would hardly bee brought to fight, imbattailing his Phalange, stretched it out in depth. The Lucans therefore, contemning the small number, drew out their forces in length, with intent to over-front the enemy; which Cleandridas perceining, commanded the followers to march up, and ranke with their Leaders; and by that meanes increased the length of his Phalange, and ouer-fronted the enemy; who being incompassed, and assailed with missive weapons on all hands perished intirely, excepting a few, that faued themselues by shamefull flight. The words seeme obscure to aman not acquainted with the Tacticks. There are two kinds of soldiers suith Elian in a file, Leaders, and followers. All the Leaders are the odde of the file; as the first, the 2. the 5, the 7, and so forth: the followers are the even, as the 2 4,6,8. Those that are in the Same ranke, are called side-men. Now, Saith Polien, Cleandridas milled the followers to step forward, and to ranke, and become fide-men with their Leaders: that is, he willed the even files to double their ranks with the odde; and fo extenuated the depth, but increased the length of his Phalange; by which art he overfronted inclosed the enemy on all sides. This way then to double ranks, or the length of the battaile, is to insert the cuen ranks man by man into the oade. All the Doublings that have beene rebearfed, were Doublings either in number alone, or elfe both in number, and place. For doubling of place alone nothing is faid in Elian. The Insertion I recited, supplyeth this defect: saying, the place is doubled with 124 files, onely by commanding halfero turne to the Pike, halfe to the Target, till the Phalange be firetched to a convenient length; as from 5 furlongs to ten; which is as much to say in few words, as to open the Phalange; Or to bring it from order, to open order. For so the front possesseth double ground to that it had before.

4 The vie of Doubling the length is Two causes are assigned for the doubling of the length: One to ouerwing the enemy, the other to avoide overwinging our o see Leo cap. selues. Cleandridas in the example aboue, performed both: For he both disappointed 1.8 69. & 79. the Lucans that fought to incompasse him, and besides incompassed, and inclosed them. The narrower the front is, it is the more in danger of over-fronting; P being p Xenoph Cy. drawne out in length it is freer from enclosing because a greater compassemust be setched, top lib. 6.168. beforeit can be inclosed. Yet are we to take heed, that in doubling of the front, we give it not fo much length that it fails in depth. The want of length, or depth is alike dangerous, and giveth advantage to the enemy. I have touched before, and quoted Leo glaneing onely at his words. Now I will fet them downe as they lye: 4 When the thicknes q Locip. 14. or depth of the Phalange (faith he) is gathered vp and made more thinne, it be- 5.103. houseth not so to lengthen it, that it become altogether weake and without depth. For it will so come to passe, that the enemy shall easily cut it in pecces, and make a passage thorough it, and not onely seeke to incompasse it before, but passing thorough the middest, bee found behinde, and there indamage it. And this it behooueth a Generall, not onely to take heede, hee

suffer not himselse, but also indeuour to put vpon his enemy.

Hitherte

i Leu cap.7.

k Poly-n l.b 4.

Hitherto are the words of Leo: shewing the disadvantage of a battaile too much thinned by doubling the length. But i Leo ellewhere andeth an other cause of doubling, namely to make thew a faire light of the Armie. For the more ground it taketh in front, the more will the number appeare, and the bravery of every man in particular discouered. Further Antigonus vied also this doubling for a policie to beguile his enemy, k Polien reporteth the fact thus: Antigonus incamped against Eumenes with an ar-

in Antegono. mie inferior in number. And when messengers were sent often from one to an other, Antigonus at the receit of a messenger of the enemy, commanded one of his fouldiers to come running in, as it were out of breath, and all to be-fullied with dust, and to bring newes that his Confederates were come. Antigonus hearing the newes, leaped for ioy, and sent away the messenger. The next day he led his Armie out of his trench, doubling the length of his front. When the enemy heard of their messenger the newes, that was brought to Antigonus concerning his Confederates, and faw the length of his battaile doubled, they imagined that the depth was answerable to the front. And therefore they dislodged being afraid to joyne with him.

5 There are that missike] Countermarches, and Elians doublings of number, are dangerous the enemy being ready to tharge. Because the files of the Battaile must be kept in open Order is I the motions be ended; which posture is not fit to receive the charge of the enemy, as we faw out of the eleuenth Chapter. The other two doublings are done in close order, whereof I made mention a little before; The one dividing the middle men in halfe, and fleening them up by the battaile on both fides; The other fleening them upon one side which you will, may be wfed without danger, as well when the enemy is neare, as when the fight is: in as much, as they disturbe not the battaile, but advance frest aides against the enemy on the flanks of it.

6 By inserting the second file | There are two manner of doublings of the depth or of files; one in number, the other in place. In number, when one file is inserted into another the Leader or first man of the second file standing behind the Leader of the first; the second behind the second, the third behind the third, and so forth of the rest: Or when the euen files countermarch, and their Leaders place themselues behind the Bringers up of the odde, their files following them; or (which commethall to one) the files being whole, they divide themselves into two parts in the front, and halfe countermarch, and place themselves in the Reare of the other file to file: albeit the two last are Doublings both in number and place and not in place alone. The true Doubling of the place alone is not Elian. The Insertion whereof I pake, remedieth this defect also. There it is said, that when 16 men (that is a file) are so extended, that they possesse as much length as 32 should doe, (that is, as 2 files) it is doubling of place. which is nothing else but changing of the Souldiers order into open order. For in their order they have 48 foote in depth; in their open order 96 foote indepth. In this Doubling of depth we must take heed that we make not the front of our Armie to no row lest we give oportunitie to the enemy to insircle, and incompasse it. Poly bius noteth this a great fauls in Marcus Atilius Regulus, at (uch time as he fought with the Carthaginians, and was taken prisoner. Hu words have this effect : L' The Romans seing the enemy order his battaile marched out against him full of courage. Being notwithstanding somewhat appalled at, and foreseing the Elephants violence in comming on, they fet their Dariers before, and placed many maniples of Armed behind, one after an other, and divided the Horse halse into one wing, halse into the other. Then making the whole battaile shorter, but deeper, then they were wont, they provided well against the Elephants, but not against the Horse, that farre exceeded theirs

in number. Being now come to hands the Roman horse ouerpressed with multitude of the Carthaginians quickly fled from either wing. But the foote of the left wing, partly anovding the Elephants, partly contemning the Mercenaries, fell on, and charged the right wing of the Carthaginians, and putting it to flight, followed hard, and gaue chase euen to the trench. But of those, that were placed against the Elephants, the first finking under the violence of the beasts, perished being ouerturned, and troden to death by heapes. The body of the battaile remained a while vnbroken by reason of the depth of them, that were after placed. But when the Reare of all, incompassed by the horse, was forced to turne about, and fight with them; and the other that had by force made way thorough the middest of the Elephants, and were now behind their backs, came vp to the fresh Phalange of the Carthaginians, standing in good order, they were bythem slaine. Thus fortune being contrary on all lides, the Romans for the most part were troden to death by the excessive might of the beasts, and the rest died with the darts of the horsemen in the place, where they fought. The error of Attilius Regulus was in ordering his battaile too deepe; by meanes whereof it was easily incompassed, and distressed by the Carthaginian horse. " Appian likewise blameth Antiochus for orde- m Appian in ring his Phalange 22 men in depth, where the Macedonian Phalange ought to but 16 deepe, Syriacis 107.B. herving that by that overfight it was incompassed by the Romans, and overthrowne. I have touched the historie in my nows before. Many other examples might be alledged, but these two are sufficient for our purpose.

> The words of Command in doubling of the length by number.

Middlemen double your Rankes to the right, or left hand.

By this Command the middle men with their halfe files march up to the front, in the spaces betwixt the files, and standeuen with the File-leaders, and the rest even with the rest of the Ranks.

Doubling of the length in place.

Stand in your open order.

One halfe openeth their files to the right hand, the other to the left, and stand fix foote one from an other.

Doubling of the depth in number.

Double your files to the right or left hand. The even files fall into the spaces of the odde files.

Double your files by countermarch to the right or left hand.

The even files countermarch, and fall behind the reare of the odde, and place them-I lues lineally after them, observing their first distances.

Divide your files and double them by countermarch to the right, or left hand.

Halfe the files divide themselves from the other halfe, and countermarch out behind the Reare, then turne their faces towards the place behind the Reare of the flanding files, which removed not; then march on, and place themselves orderly behind them file to file, then turne their faces, as at first. Doubling the depth in place.

Ranks open behind to your open order.

M 3

The

I Po'yb.lb r.

The broad fronted Phalange, the deep Phalange, or Herle, and the vneuen-fronted Phalange.

CHAP. XXX.

PLagiophalanx, or the broad-fronted Phalange, is that, which hath the length much exceeding the depth.

Orthiophalanx, or the deep Phalange (commonly called the Herse) is that, which procedeth by wing having the depth much exceeding the length. In generall speach enery thing is called Paramekes, which hath length more then the depth; and that which hath the depth more, then the length, Orthion: and so likewise a

Phalange.

The Phalange Loxe, or vneuen fronted, is that, which putteth forth one of the wings (which is thought fittest) toward the enemy, and with it beginning the fight, holderh off the other in a convenient distance, till oportunitie bee to advance

> Of Parembele, Protaxis, Epitaxis, Prostaxis, Eutaxis, & Hypotaxis.

> > CHAP. XXXI.

Parembole, or insertion is, when placing souldiers before we take off the hind-most, and ranke them within the distances of the first.

Protaxis, or fore-fronting, is when we place the light-armed before the front of the armed, and make them fore-standers, as the File-leaders are.

When we place the light-armed behind, it is called Epitaxis, as it were an after-

Proftaxis, or adioyning is, when to both flanks of the battaile, or to one flanke, some part of the hindmost is added, the front of them, that are added, lying even with the front of the battaile; such addition is called Prostaxis.

Entaxis, or Instition, is when it seemeth good to set the light-armed within the spaces of the files of the Phalange man to man.

Hypotaxis, or Double-winging, is when you bestow the light-armed under the wings of the Phalange, placing them in an embowed forme; so that the whole sigure resembleth a three-fold gate, or doore.

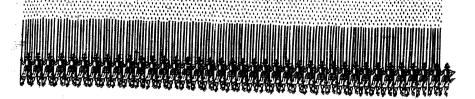
> How the motions of wheeling, double, and treble wheeling of the battaile are to be made.

> > CHAP. XXXII.

I reduced to the first posture, or Station.

When therefore wee would accustome our Troupes to wheele the battaile to

Plagnopbalanx or the Brode-Fronted Phalange



Orthophalanx or the Herse





AKAKAMAKAKA KAKA KAKAKANANA NANA NANA

Prizzia or fresronting



Plagnophalanx or the Brode-Fronted Phalange

Cap - 30

e,or Herse, and the

hat, which hath the length

ed the *Herse*) is that, which ing the length. In generall ength more then the depth; n, *Orthion*: and so likewise a

ich putteth forth one of the , and with it beginning the ce, till oportunitie bee to

axis, Eutaxis,

before we take off the hindfirst.

ht-armed before the front of ders are

d Epitaxis, as it were an after-

attaile, or to one flanke, fome t are added, lying euen with faxis.

t the light-armed within the

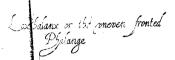
y the light-armed vnder the forme; so that the whole si-

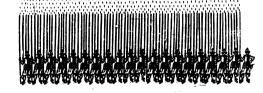
treble wheeling

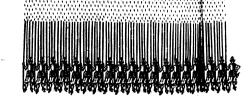
or wheeled, and how after pes to wheele the battaile to the

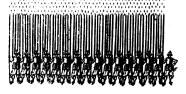


Orthopbalanx or the Herse









AKAKAMAN KALALALALALALAN KARAMAN KA

Protocus, or forefronting

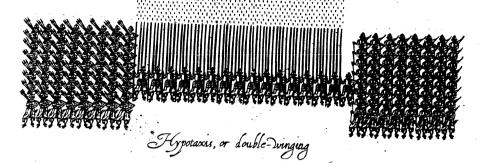
The Front

Cap. 31 .

PLaging much orthiop, procedeth speach eur and that we Phalange The Ph. wings (wt fight, bolc advance

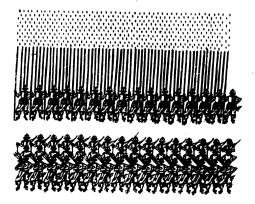
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T folk reduce When





Entaxis, or insertion



Protocus, or forefronting .

Cap. 32.

The manner of subjecting

Closing of files The first posture * AND AND THE PROPERTY OF THE Closing of ranker forward

the right hand, we command the right-hand-file to stand strme, & the rest of the sheets of turne their faces to the right hand, and to moue clote vp to the right hand file. Then to turne their faces, as they were at first: Then the hinder rankes to close for ward: Then the whole battaile in that closensse to wheele about the corner-file-Leader to the right hand. This done, if neede be to reduce it to the strip posture, or Station, we command every man to turne about his face to the Target, or less hand (that is to looke the contrary way) Then to wheele about the body, that is, as it turned, closed, & served with the front to the right hand so to returne it agains to the place, from whence it made the wheeling; Then the sile-Leaders to stand strme, and the rest to open their ranks behind; Then to turn their faces about, as they stood at first; Then the right-hand-sile to stand sand the rest turning faces to the less hand to open their files; Then to stand; And last-ly to turne their faces again to the right hand: and so shall every man have his sirst posture.

But in case we defire to wheele to the left hand, we command the left-hand-file to ftand ftill, and all the rest to turne their faces to the left hand, and mooue forward close vp to the left hand file; Then to turne their faces as they were; Then to gather vo the hinder rankes; Then to wheele the battaile to the left hand, and stand; and so is it done, that was commanded. But if restitution to the sirst posture be needfull, we must doe, as we did in returning from the right. For every man must turne about his face to the Pike; Then the whole battaile wheeling about the left-hand-corner-file-Leader must returne to the place, it had; Then all the file-Leaders stand firme, and turne about their faces, and the rest open their rankes in mouing forward and make Alre; Then the left hand file is to stand firme (for it hath the place it first had) and the rest turning their faces to the right hand to open their files, and moue forward, till they have recovered their first distances; then to turne their faces as at first; and so shall every man be in his first posture. Now if we would wheelethe battaile about, to the pike we are to make 2 wheelings to the same side, so will it come to passe that the sile-Leaders shall in the change have their faces turned to the Reare, where before they had them looking out from the front. But in restoring to the first posture we command it to wheele about to the right hand; That is, we give it two wheelings more the same way; So the file-Leaders will haue their faces fet, as at first. Then we command the file-Leaders to stand sirme, and the rest to open their rankes behind; then to turne their faces about; Then the right hand file to stand still (for it hath the right place) and the rest turning their faces to the right hand to march on, till the former distances are regained; then to make Alte. So is the battaile reduced to the first Station.

If you would have the battaile turne about to the Target, you are to give contrarie directions; That is, in stead of commanding a double wheeling to the Pike, to command a double wheeling to the Target; Then by making two turnes the contrary way, to viethelike changes, we spake of before.

There is likewise a treble wheeling of the battaile, when it turneth thrice to the same hand, namely to the Pike, or Target. The double wheeling to the Pike transferreth the Souldiers face from the front to the backe of the battaile: The treble wheeling to the Pike bringeth his face to the left flanke. The treble wheeling to the Target contrariwise to the right flank.

The Tacticks

Notes.

D Efore in the 26 Chapter Ælian discoursed of wheeling, and the kindes thereof. The Dmanner, how it is to be done, is reserved for this place, I neede not therefore remember any thing elfe, besides the words of command.

The words of command in Epistrophe.

The ottermost file on the right or left hand stand sirme The rest surne faces (to the side purposed) and march up to the file standing sirme. Faces as you were.

Close your rankes forward:

Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand Wheele backe the body to the ground, it first had. File-Leaders stand firme: the other rankes open to their first place. Faces about (to which hand you will) The corner file (to which the turning was) stand firme, the rest open to their first ground. Faces as you were, and order your Pikes.

Perispasmos, or wheeling about.

In wheeling about, the same wordes to close the files, and rankes, are to bee wfed, which were vfed in Epistrophe, there remaineth no more, thento fay Wheele about your body, to the right, or left hand.

Anastrophe or returning to the first Posture.

Returne to your first Posture.

The same forme is vsed, that was held in the former returning unto the first posture for opening rankes and files.

Ecperispasmos, or treble wheeling.

In this motion the same course is held, that was in the wheeling; But only that you command a treble wheeling. And the returning to the first Posture, or Anastrophe is all one, but for the same difference.

> Of closing the battaile to the right, or left hand, or to the middest.

> > CNAP. XXXIII.

TF we would close, or thicken the Phalange in the right wing, we are to command Lthe right-wing-corner-file to stand still, and the rest turning faces to the Pike to advance toward the right hand; Then to fet their faces as they were, and to gather vp the rankes behinde. In reducing them to the first posture we are to com mand the file-Leaders to stand, and the rest turning about their faces to open

he front after

Jojing to the middeti

The Tacticks

Notes.

Before in the 26 Chapter Elian discoursed of wheeling, and the kindes thereof. The manner, how it is to be done, is reserved for this place, I neede not therefore remember any thing else, besides the words of command.

The words of command in Epistrophe.

The vitermost file on the right or left hand stand strme Therest turne faces (to the side purposed) and march up to the sile standing strme. Faces as you were. Close your rankes forward: Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand
Wheele backe the body to the ground, it first had.
File-Leaders stand strme: the other rankes open to their first place.
Faces about (to which hand you will)
The corner file (to which the turning was) stand strme, the rest open to their first ground.
Faces as you were, and order your Pikes.

Perispasmos, or wheeling about.

In wheeling about, the same wordes to close the files, and rankes, are to bee seed, which were vsed in Epistrophe, there remaines ho more, then to say Wheele about your body, to the right, or left hand.

Anastrophe or returning to the first Posture.

Returne to your first Posture.

The same forme is weed, that was held in the former returning wnto the first posture for opening rankes and siles.

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Of closing the battaile to the right, or left hand, or to the midde st.

CNAP. XXXIII.

If we would close, or thicken the *Phalange* in the right wing, we are to command the right-wing-corner-file to stand still, and the rest turning faces to the Pike to advance toward the right hand; Then to set their faces as they were, and to gather up the rankes behinde. In reducing them to the first posture we are to command the file-Leaders to stand, and the rest turning about their faces to open their

Jojing to the middeti

Therest turne fixes (to the side purposed) and march up to the fixes timbers, while Eaces as you were.
Close your rankes forward:
Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand
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File-Leaders stand firme: the other rankes open to their first place.
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The corner file (to which the turning was) stand sirme, the rest open to their first ground.
Faces as you were, and order your Pikes.

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In wheeling about, the same wordes to close the files, and rankes, are to bee wsed, which were vsed in Epistrophe, there remainesh no more, then to say Wheele about your body, to the right, or left hand.

Anastrophe or returning to the stirst Posture.

Returne to your sirst Posture.

The same forme is weed, that was held in the former returning unto the stift posture for opening rankes and siles.

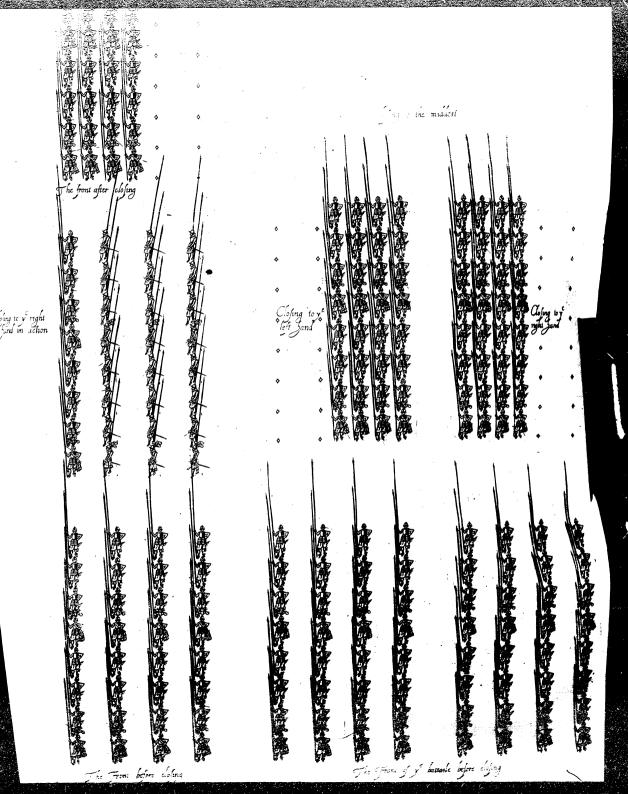
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Of closing the battaile to the right, or left hand, or to the middest.

CHAP. XXXIII.

If we would close, or thicken the *Phalange* in the right wing, we are to command the right-wing-corner-file to stand still, and the rest turning faces to the Pike to advance toward the right hand; Then to set their faces as they were, and to gather vp the rankes behinde. In reducing them to the first posture we are to command the file-Leaders to stand, and the rest turning about their faces to open their



mand the file-Leaders to stand, and the rest turning about their faces to open

their rankes behinde; Then to turne their faces as they were; Then the rightwing-corner-file to stand (for it hath the right place already) and the rest proceeding onto the Target to follow their Leaders, and observing their distances to turne their faces as at first. A contrarie course is to be held in thickning the Phalange to the left wing.

If the Phalange be to be closed in the middest, the Diphalange on the right hand must turne their faces toward the Target, and the Diphalange on the left hand their fices toward the Pike; Then mone forward toward the middest of the Phalange; Then, after their true distance gained, to set their faces, as they were, and to ga-

ther vo the Rankes behind.

When we would reduce the Phalange to the first posture, wee command to turne faces about; then to open the Rankes, and all to move on, but the first Ranke : then to turne their faces againe, and the right Diphelange turning to the Pike, and the left Diphalange to the Target to follow their Leaders, till they have recovered their first distances. Then to set their faces, as they were.

This rule is to be observed in all turnings about of faces, when they are made out of closings, that the Pikes be aduanced, least they hinder the Souldier in ma-

The light-armed are to be taught, and exercised after the same manner.

Notes.

I Nthe 11 Chapter the distances, that ought to bee betwixt souldier and souldier, are I particularly treated of. This Chapter sheweth, how they are to be gained, that is, how we are to proceede out of one distance into another. And because the open order is it, that is commonly begunne withall, it is here taught how from thence to paffe to the rest, and to returne to it againe. The end of closings is spoken of before. In regard of place they are Said to be of two kindes: One to the wing (right or left) the other to the middest of the Phalange. I cannot expresse the manner better, then by setting downe the wordes of command or direction, which are thefe in

Closing to the right wing.

The right-wing-corner-file stand firme

The rest turne faces to the Pike, and move (according to the distance required) to the right hand.

Faces, as you were.

Close your hinder ranks forward, and order your Pikes.

Restoring to the first posture.

File-Leaders stand firme.

The other Rankes, turne faces about, and open behinde to the first distance.

Faces as you were.

The right-wing-corner-file stand firme; the rest turne faces to the Target, and proceede to your first distance.

Faces as you were; and order your Pikes.

Closing to the left wing.

Is differeth not from the other, but that the mouing is to the contrarie hand.

The Tallicks

Closing to the middest of the Battaile.

The right-wing turne faces to the Target, the left to the Pike. Each mone up to the middest of the Phalange, and stand at the distance named.

Ctofe the hinder rankes forward, and order your Pikes.

Restoring to the first Posture.

The first ranke stand sirme.

The reft turne faces about, and open the rankes to the first distance.

The files next the middle settion stand fast, and the right wing turne faces to the Target, the left to the Pike, and move on till the first distance recovered.

Faces as you were, and order the Pikes.

We may not forget Elians generall rule for turning of faces out of Closings, that the Pikes be alwaies aduanced. For when you come up to the closenesse required, the Pike upon the shoulder will hardly admit turning of the face. The like falleth out when you would open from the Closing.

> The vegand advantage of these exercises of armes.

> > CHAP. XXXIV.

Hele precepts of turning about of faces, of wheeling, and double wheeling of the Battaile, and of reducing it to the first posture, are of great vse in suddaine approches of the enemy, whether hee shew himselse on the right, or left hand, or in front, or in the reace of our march. The like may bee faid of Conntermarches ; Of which, the Macedonians are held to bee the inventors of the Macedonian; the Lacedemonians of the Lacedemonian; and for this cause either to have name accordingly. The Histories witnesse, that Philip (who much enlarged the Macedonian kingdome, and ouercame the Gracians in battaile at Cheronea, and made himselse Generall of Greece) and likewise his sonne Alexander (that in short time conquered all Mia) made small account of the Macedonian countermarch, vnlesse necessitie forced it; and that they both by the vse of the Lacedemonian became victorious ouer their enemies. For the Macedonian countermarch the enemy falling vpon the reare, is cause of great consusion; in as much as the hindermost dismarching toward the front, and making a shew of running away, it more encourageth, and emboldneth the enemy to follow. For feare, and pursuit of the enemy [ordinarily] accompanieth that kinde of countermarch. But the Lacedemonian is of contrarie effect. For when the enemy sheweth himselfe in the reare, the Leaders with their followers brauely advancing, and opposing themselues, it striketh no small feare, and terror into their mindes.

A Deduction to the right unduction

CHAP.

Therest turne faces about, and open the rankes to the first distance. The files next the middle fection stand fast, and the right wing turne faces to the Targee, the left to the Pike, and move on till the first distance recovered. Faces as you were, and order the Pikes. We may not forget Elians generall rule for turning of faces out of Closings, that the Pikes be alwaies aduanced. For when you come up to the closene serequiren, the Pike wpon the shoulder will hardly admit turning of the face. The like falleth out when you would open from the Closing. The ve, and advantage of these exercises of armes. CHAP. XXXIV. Hele precepts of turning about of faces, of wheeling, and double wheeling of the Battaile, and of reducing it to the first posture, are of great vse in suddaine approches of the enemy, whether hee shew himselse on the right, or left hand, or in front, or in the reare of our march. The like may be faid of Countermarches; Of which, the Macedonians are held to bee the inventors of the Macedonian; the Lacedemonians of the Lacedemonian; and for this cause either to have name accordingly. The Histories witnesse, that Philip (who much enlarged the Macedonian kingdome, and ouercame the Gracians in battaile at Cheronea, and made himselfe Generall of Greece) and likewise his sonne Alexander (that in short time conquered all Mia) made small account of the Macedonian countermarch, vnleffe necessitie forced it; and that they both by the vse of the Lacedemonian became victorious ouer their enemies. For the Macedonian countermarch the enemy falling vpon the reare, is cause of great confusion; in as much as the hindermost diffnarching toward the front, and making a fnew of running away, it more encourageth, and emboldneth theenemy to follow. For feare, and pursuit of the enemy ordinarily accompanieth that kinde of countermarch. But the Lacedemonian is of contrarie effect. For when the enemy sheweth himselfe in the reare, the Leaders with their followers brauely advancing, and opposing themselues, it striketh no small feare, and terror into their mindes. nght unduttion CHAP.

Of the signes of direction, that are to be given to the armie, and their soverall kindes.

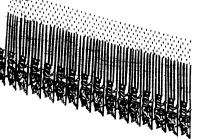
CHAP. XXXV.

Ee are to acquaint our forces both foote, and horfe, partly with the voice, and partly with visible signes, that what so user is sitting be executed, and done, as occasion shall require. Some things also are to be denounced by the Trumpet, for so all directions will be fully accomplished, and fort to a defired effect. The signestherefore, which are deliuered by voice, are most evident, and leave the page of the state cleere, if they have no impediment. But the most certaine, and least tumultuous are such, as are presented to the eve if they bee not obscured. The voice

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The front

The right Induction

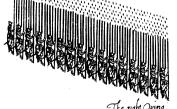
Of the fignes of direction, that are to be given to the armie, and their souerall kindes.

CHAP. XXXV.

Ee are to acquaint our forces both foote, and horfe, partly with the voice, and partly with visible signes, that whatsoeuer is fitting be executed, and done, as occasion shail require. Some things also are to be denounced by the Trumpet, for so all directions will be fully accomplished, and sort to a desired effect. The signestherefore, which are delivered by voice, are most enident, and cleere, if they have no impediment. But the most certaine, and least tumultuous are such as are presented to the control of the partle of the control of th

Cajn:36.

The left (wing)
The Codembolos



The Phalange let against y left (wing of y Coclembolos



The forbearing Phylange





Of the signes of direction, that are to be given to the armie, and their souerall kindes.

CHAP. XXXV.

Ee are to acquaint our forces both foote, and horfe, partly with the voice, and partly with vifible fignes, that whatfoeuer is fitting be executed, and done, as occasion shall require. Some things also are to be denounced by the Trumpet, for so all directions will be fully accomplished, and fort to a delired effect. The fignes therefore, which are deliuered by voice, are most euident, and cleere, if they have no impediment. But the most certaine, and least tumulturous, are such, as are presented to the eye, if they bee not obscured. The voice sometime can hardly be heard by reason of the clashing of armour, or trampling, and neighing of Horses, or tumult of cariage, or noyse, and consused sounds of the multitude. The visible signes also become many waies incertain, by thicknes of aire, and dust, or raine, or show, or sun-shine, or else thorow ground, that is vneuen, or sull of trees, or of turnings. And sometimes it will not be easieto find out signes for all vses, occasions est soones presenting new matter, to the which a man is not accustomed. Yet can it not fall out, that either by voice, or by signal, we should not give certaine and sure direction.

Of marching, and of divers kindes of Battatles fit for a March: And first of the right-induction, of the Coelembolos, and the Triphalange to be opposed against it,

CHAP. XXXVI.

Eing now to speake of marching I will first give to vnderstand, that some kind of march is a Right-induction, other some a Deduction on the right, or less liand; And that in a single, or aouble, or treble, or quadruple sided-battaile. In a single, when one enemy is feared; in a double, when two; In a treble, when three; In a quadruple, when the enemy purposent to give on on all sides. Therefore the march is vndertaken sometimes in a single Phalange, sometimes in a two sold Phalange, or else in a threefold Phalange, or in a four fold Phalange.

A right-induction is, when one body of the same kinde followeth another; as if a Kenagy lead, and the rest follow Xenage-wise. Or a Tetrarchy lead, and the rest follow according to that forme. It is so called, when the march stretcheth it selfe

out into a wing hauing the Depth much exceeding the length.

Against it is opposed the * Calembolos, which is framed, when the Antistomos * Hollow Wedge.

* Diphalange distinguish the Leading-wings, closing the Reare in manner of the * Double letter V: as the figure after placed doth teach, In which the front is differenced, & Phalinge. the reare in yound, and knit together.

For the Right-induction pointing at the middest of the enemies battaile, the Calembolos quickly opening before serueth both to srustrate the charge of the front, and to classe in, and circumuent the stankes of the right-induction.

Further-

* Treble Pia-

The Tacticks

Furthermorea * Triphalange is to be fet against the Calembolos, one Phalange fighting against one winge of the Calembolos; The second against the other, and the middle, and third forbearing, and expecting a time fit to charge.

of Paragoge, or Deduction.

CHAP. XXXVII.

P Aragoge, or Deduction is, when the Phalange proceedeth in a ming not by file, but by ranke, having the Commanders, or file-Leaders, either on the right hand, which is called a right-hand- Deduction, or on the left hand, which is called a lest-hand-Deduction. For the Philange marcheth in a double, treble, or quadruple-side according to the place, and part, it is suspected, the enemy will give on. And both the Paragogies beginning the fight in flanke doe make the length double to the depth. This forme of fight was deuised to teach a Souldier to receive heedfully the charge of the enemy not onely in front, but also in flanke.

of the Phalange Amphistomus.

CHAP. XXXVIII.

sed Phalange.

"He Phalange * Amphistomu (for it is so called, because it hath two fronts, and that part of the battaile, that is fet, and advanced against the enemie, is called a front) Seeing then in this forme the middlemost are ordered backeto backe, and those in front and reare make head against the enemy, the one being Commanders of the front, the other of the reare, therefore it is called Amphiftsmu. It is of great vie against an enemy strong in Horse, and able to give a hor, and dangerous charge; and principally practifed against those Barbarians, that *Horfemen that inhabit about the river Ifter, whom they also call * Amphippi because they change

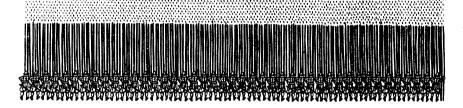
onespare, nice. Horses in fight.

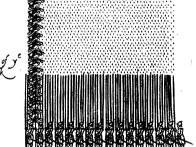
The Horse battaile to encounter this forme hath a Tetragonall shape, being for the purpose divided into two broad-squares (they are broad-squares, that have the front twice as much as the depth) And these Squares are opposed seuerally against the divisions of the foot-battaile.

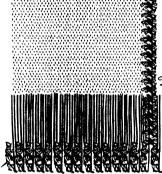
Of the Phalange Antistomus.

CHAP. XXXIX.

"He Phalange * Antistomus is like the Amphistomus the forme being 2 little altered; so that it accustometh the souldier to refist the severall kindes of incursions of Horse. All that hath beene spoken concerning the former Phelange both for foote, and Horse agreeth with this figure also. Herein they differ, that (ap 37)
A foure fronted Pbalange against
all allemptes of the Enemy
The Front of y^e reare







The Front of the Acres

Of Ælian. the Amphissomus receiveth the charge in front, and reare, the Antistomus in stanke But asswell in the one, as the other, they fight with long Pikes, as doe the Alins, and Sauromatans. And the one halfe of the souldiers in the siles turne their faces forward, the other halfe backward; so that they stand back to backe. This forme hath two fronts, the one before, where the file Leaders, the other behind, where the back-Commanders stand. And being also divided into a Diphalange it maketh the fore-front with the one, and the after-front with the other Phalange. Of the Diphalange Antistomus.

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Doulbe flatt.

Of Ælian.

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Of the Diphalange Antistomus.

CHAP. XL.

Diphalange Antistomus is that, which hath the file-Leaders placed not in Deduction outwardly, but inwardly face to face one against an other, and the reare-Commanders without, one halfein a right, the other in a lest-hand Deduction.

This forme is vsed when the Horse giue on and charge Wedge-wise. For the *Wedge shooting foorth into a point, and having the Commanders following in stanke, and endeauouring to diffeuer, and breake the front of the foote, the Leaders of the foote, foreseing their purpose, place themselves in the middest with intent either to repulse them, or else to giue them a thorough passage without losse. For the Wedge slieth vpon the foote in hope to charge the multitude in the middest, and to disorder the whole battaile: And the foote Commanders conceiving well the fury of that kinde of forme; leave a little space betwise either front, and stand like walles on both sides, and iointly turning their faces toward the middest, give them a fruitlesse, and empty passage.

This forme of Horse-battaile is called a Wedge by Tatticks, which was invented by Philip King of Macedon, who placed his best men before, that by them the weaker fort might be held in, and enabled to the charge: as we see in a speare, or in a sword, the point whereof by reason of the sharpnesse quickely piercing maketh way for, and letteth in the middle blunt iron.

Of the Diphalange called Peristomus.

CHAP. XLI.

The Phalange of the Diphalange* Peristomus proceedeth by deduction in a wing, the oblique deduction on the right hand having the file-Leaders without, the left hand oblique deduction the reare-Commanders within. The figure sheweth the intent of them that fight so ordered. For the battaile going to charge, having beene at first Testagonall, divideth it selfe into two oblique wings (the right, and the left) of purpose to enclose the adverse square-battaile. And they fearing to bee inclosed transforme themselves into two severall marching-Phalanges directing one against the right, the other against the left wing. Therefore it is called Peristomus, as having the front bent against the enemy both waies.

The Tacticks

Of the Diphalange called Homoiostomes, and of the Plinthium.

CHAP. XLII.

A sedailets fronted Phalange. A Diphalange* Homoiostomus is so named because a whole file (that is 16 mea) mouing by it selfe, another file followeth it. And it is therefore called Homoiostomus, because they that follow, follow in a like figure.

* A fourefidedbattaill square of men and ground. This kinde is opposed against the *Plinthium*. * *Plinthium* is a forme of Battaile, that hath the sides equall both in figure and number. In figure because the distances are enery where equall; In number because there are as many men in length, as in depth. In this *foure-sided-Battaile* are none in the slankes, but armed, without Archer, or Slinger to helpe. When therefore two *Phalanges* march together, one by another, and both have their Leaders either its a right-hand, or lest-hand *Deduction* it is called a *Diphalange Homoiostomus*.

Of the Diphalange Heterostomus.

CHAP. XLIII.

* A double Phalange with conerary flanks.

A Diphslange * Heterostomus is that, which proceedesh by Deduction, having the Leaders of the former Phalange in a right-hand-Deduction, and of the following Phalange in a left-hand-Deduction: so that the battailes march counterchangeably, one having the Leaders in one flanke, and the other in the other: and so the rest.

Againe of the Battaile called a Rhombe, and of the foote-halfe moone to encounter it.

CHAP. XLIV.

The battaile framed in forme of a Rhombe, was first invented by Ileon the Thessellian, and was called Ile after his name; and to this forme he exercised and accustomed the Thessellians. It is of good vie, in that it hath a Leader at every corner, at the point the Captaine, of the Troupe; the reare-Commander behinde, and on either side the stanke-commanders. The soote battaile, sittest to affront this, is the Menoides, or Cressellian, having both the wings stretched out, and in them the Leaders, and the middest imbowed to inviron and wrap in the Horsemen in their giving on. Whereupon the Horsemen ply the soot a farre off with stying weapons, after the manner of the Tarentines, seeking the thereby to dissolve and disorder their circled frame of marching. Tarentum is a City of Italy, the Horsemen whereof are called Acrobalists, because in charging they sirft cast little Darts, and after come to hands with the enemy.

The Battark called Plinthium The front ap 43.
The Dighalange Fleierostomus

The Tatticks

Of the Diphalange called Homoiostomes, and of the Plinthium.

CHAP. XLII.

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Of the Diphalange Heterostomus.

CHAP. XLIII.

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CHAP. XLIV.

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The Battaile called Plinthium The front Cap 43 The Diphalange Fleterostonous

The Diphalange Homonostomus

A M 1 105

Herft

Cap. 45

Plagrophálanx, er z^e broad fronted battarle of foote

Feteromekes or y Herse of Horse



The front

and to the rete.

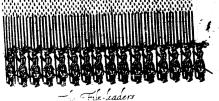
* Ada lange to orary f

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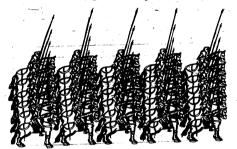
Cap. 43.
The Dighalange Fleterostomus





Plagrophelanx, or ye broad fronted battarle of foote

Heteromekes or ye Hence of Hone



The front



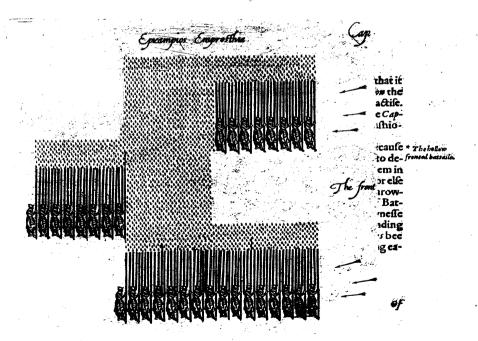
* A dom lange w spary fla

Of the Horse-battaile Heteromekes, and of the Plagiophalange to be opposed against it.

CHAP. XLV.

He Horse battaile * Heteromekes is that, which hath the depth double to the * Allerse. length. It is profitable in many respects. For seeming to cary but sew in so small a bredth it deceive the enemy, and it easily breaketh his forces with the thicknesse, and strength of the embattailing, and may without perceiving, bee lead thorough straight, and narrow passages.

The Foot-battaile to encounter it is called the *Plagiophalange*, or *broad-fronted* Battaile. For being but flender in *depth* it beareth foorth and extendeth it felfe in *length*; fo that, albeit it be broken in the middeft with the charge of the Horse; yet is nothing broken, but a little of the *depth*; and the fury of the Horse is carried not vpon the multitude of the foote, but straight, and immediately, into the open field. And for that cause is the *length* thereof much exceeding the depth.



Of the Horse-battaile Heteromekes, and of the Plagiophalange to be opposed against it.

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Of another kinde of Rhombe for Horsemen, and of the foote-Battaile Epicampios Emprosthia to encounter it.

CHAP. XLVI.

Nother fort of Rhomboides there is, whereof I need say no more, but that it fileth, and ranketh not. For I have before shewed the vse, and that Ileon the Thessalan was the inventor, and that Isson Medeas husband most put it in practice. The vse thereof is great being directed, and lead, in the foure corners by the Captaine, the Lieutenant, and the two flanke-Commanders. It is commonly fashioned of Archers on Horsebacke, as the Armenian, and Persian manner is.

Against it is opposed the soore-battaile called * Epicampios Emprosthia, because * The Indian the circumduction of the front is like an embowing. The end of this forme is to de-frontal battaile ceiue and ouer-reach the Archers on Horsebacke either by wrapping them in the voide space of the front, as they charge, and giue on vpon the sputte, or ele disordering them first with their wings, and breaking their sury, by ouerthrowing them smally with their rankes about the middle Ensignes. This kinde of Battaile was deuised to entrappe and beguile. For opening the middle hollownesse it maketh shew but of a sew, that march in the wings, having notwithstanding thrice as many following, and seconding, in the reare. So that, if the wings bee of power sufficient for the encounter, there needeth no more; if not, retiring eafily on either side, they are to iowne themselves to the buike of the Battaile.

Of the foot-battaile called Cytte, which is to be fet against the Epicampios.

CHAP. XLV.II.

THe Battaile to be opposed against the Epicampios is called * Cyrte of the circumferent forme. This also maketh semblance of small forces by reason of the convexitie of the figure. For all round things appeare little in compasse; and yet stretched out in length, and singled, they proue twice as much, as they appear red to be: as is cuident in pillars, which are round; and therefore in fight shew the one halfe, and conceale the other.

The greatest piece of skill in embattailing, is to make a shew of sew mento

the enemy, and indeed to bring twice as many to fight.

Of the Tetragonall Horse-battaile and of the wedge of foote to be opposed against it.

CHAP. XLVIII.

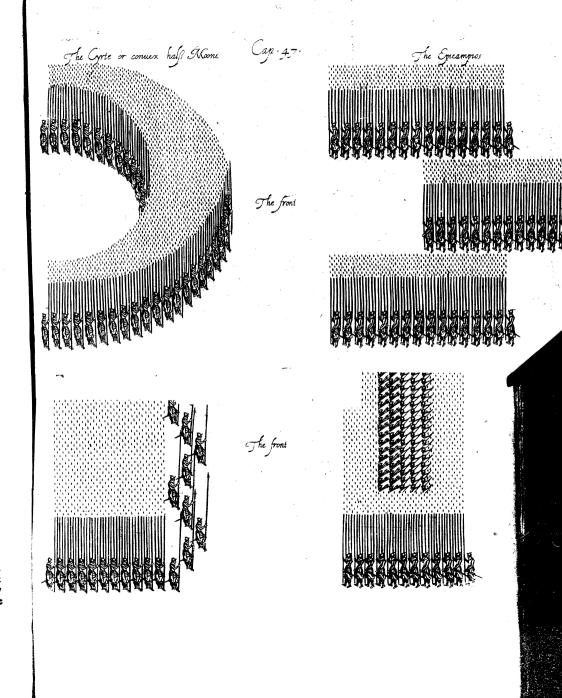
"He * Tetragonall Horsebattaile is square in figure, but not in number of men For in Squares the number is not alwaies the same: and the Generall for his advantage may double the length to the depth. The Persians, Sicilians, and most of the Gracians doe affect this forme, and take it to bee easie in framing, and bet-

Against it is opposed the Phalange called * Embolos, or Wedge of foote, all the fides confisting of armed men. This kinde is borrowed of the Horse-mans wedge. And yet in the Horse-wedge, one sufficeth to lead in front, where the Footewedge must haue three, one being vnable to beare the sway of the encounter. So Epaminondas the Theban fighting with the Lacedemonians at Mantinea, ouerthrew a mightie power of theirs by casting his armie into a Wedge. It is fashioned if the Antistomus Diphalangy in marching ioyne the front of the wings together, holding them open behind like vnto the letter A.

> Of the foot-Battaile called Ploefium, and of the winding, or fam-fronted foot-battaile to encounter it.

> > CHAP. XLIX.

He Battaile Plassum hath the length much exceeding the depth. And it is called Plassum, when armed foote are placed on all sides, the Archers, and Slingers, being throwne into the middest. Against this kinde of Battaile is set the winding-fronted battaile, to the end that with the vnequall figure, they may



≠ The conuexebastails. The Battail cumferent the convexitie o yet firetched ou red to be: as is et the one halfe, an The greatefit the enemy, and i

* Foure-square.

The * Tetrag
For in Squa
advantage may c
of the Gracians de
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* Wedge.

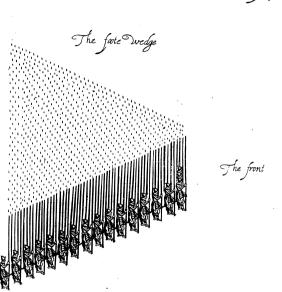
Against it is opl fides consisting of a mice mean. A market to lead in front, where the Foote-And yet in the Horse-wedge, one sufficeth to lead in front, where the Foote-wedge must have three, one being vnable to beare the sway of the encounter. So Epaminondas the Theban fighting with the Lacedemonians at Mantinea, ouer-threw a mightie power of theirs by casting his armie into a Wedge. It is fashioned if the Antistomus Diphalangy in marching ioyne the front of the wings together, holding them open behind like vnto the letter A.

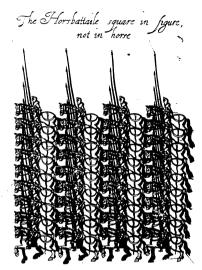
Of the foot-Battaile called Ploefium, and of the winding, or faw-fronted foot-battaile to encounter it.

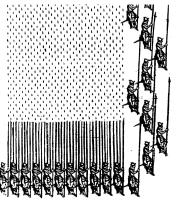
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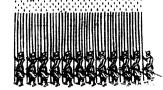
Cap . 4.8











* The consexe-

The Ba cumfe the conuexi yet stretche red to be: 2s the one half The grea the enemy,:

* Foure-Square.

He * To For in 2 aduantage n of the Gracia, ter in vic.

Against it i

* Wedge.

Against it is fides consisting And yet in the

wedge mult!
So Epaminonaas the Theban fighting with the Lacedemonians at Mansinea, ouer-threw a mightie power of theirs by casting his armie into a Wedge. It is fashioned if the Antistomus Diphalangy in marching toyne the front of the mings together, holding them open behind like vnto the letter A.

Of the foot-Battaile called Ploe fium, and of the winding, or faw-fronted foot-battaile to encounter it.

CHAP. XLIX.

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The overfroning battaile The adverse battaile The Peplegmene The Plesium The front

*The consexe.

THe Ba cumfe the conuexi yet firetche red to be: 2s the one half :) Cap. 50 :

The adverse battaile

The overfronting battaile

Of conveying the Carisge of the Army.

CHAP. LI.

Heleading of the cariage, if any thing else, is of great importance, and require the aspecial Commander. It may be conveyed in five manners, either before the Armie, or behinde, or on the one flanke, or the other, or in the middest.

Before the Army, when you feare to be charged behind. Behind the Army, when you would leade toward the enemy. When you feare to be charged in flanke on the contrary fide. In the middeft, when a hollow-Battaile is needfull and fit.

Of the words of Com nand, and certaine obsernations about them.

CHAP. LII.

Aft of all wee will briefly repeate the words of direction, if we admonish, first that they ought to be short, then that they ought to be without double-signification. For the Souldiers, that in hast receive direction, had neede to take heede of doubtfull words, least one doe one thing, and another the contrarie. As for the N 3 purpose

Cap. 50.

The overwinging battail

The adverse battail

Of conveying the Carisge of the Army.

CHAP. LI.

Heleading of the cariage, if any thing else, is of great importance, and require the aspeciall Commander. It may bee conneyed in fine manners, either before the Armie, or behinde, or on the one flanke, or the other, or in the middest.

Before the Army, when you feare to be charged behind. Behind the Army, when you would leade toward the enemy. When you feare to be charged in flanke on the contrary side. In the middest, when a hollow-Battaile is needfull and sit.

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and troise de

traine out thole of the Plafum to cope with the foremost of the winding fronten battaile, and by that meanes dissolue, and disorder the thicknesse of the fame. And the file-Leaders of the winding-battaile are to observe, and marke the file-Leaders of the Plasium, that if they still maintaine their closenesse, and fight ferred, they also incounter them in the like forme; if the Plefam file Leaders scuer themselves, and spring out from their maine sorce, then they likewise bee ready, to meet them man to main, and the second of a control of the second of the seco

section as a concern por the conference of the concern and of temperature of the conference of the con of Hyperphilange is and Hyper kerifts, and of Stilenastion, and the state of the state of

CRAD. L. data January de Array

Tperphalangesis, or over-fronting is, when both wings of the Phalange ouer-Treach the enemies front. Hyperkerafis, or overwinging is, when with one of the wings we ouer-reach the front of the enemy. So that hee, that overfronteth, overwingeth, but hee, that ouerwingeth, vuerfrontesh not. For they, that match not the enemy in multitude, may yet ouerwing them.

Attenuation or leffening is, when the depth of the barraile is gathered vp ; and in stead of 16 men a smaller number is set,

Of conneying the Caringe of the Army,

He leading of the cariage, if any thing elfe, is of great importance, and require the special Commander. It may bee conveyed in five manners, either before the Armie, or behinde, or on the one flanke, or the other, or in the

Before the Army, when you feare to be charged behind. Behind the Army, when you would leade toward the enemy. When you feare to beecharged in flanke on the contrary fide. In the middeft, when a bellow-Battaile is needfull

> Of the words of Command, and certaine obfernations about them.

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purpole: Ist say turne your face, some it may be, that he are mee, will turne to the right, someto the left hand, and so no small consussion follow. Seeing therefore these words turne your face import a generall fignification, and comprehend turming to the right, or left hand, we ought in flead of faying turne your face to the pik. to pronounce it thus: To your Pike turne your face, that is, we ought to fet the partie cular before, and then inferre the generall. Like realon is , if you fay, turne about Jour face, or countermarch. For these are also generall words; And therefore wee should do well to set the particular before. As to the Pike turne your face about, or to the Target turne your face about. Likewise the Lacedemonian countermarch, not the Countermarch Lacedemonian. For if you place the word Countermarch first, some of the Souldiers will happily fall to one kind, other to another kinde of Countermarch. For which cause words of double sense are to be avoided, and the speciall to be fet before the generall.

Of silence to be vsed by Souldiers.

CHAP. LIII.

D'é aboue all things filence is to bee commanded, and that heed be given to directions: As Homere specially fignifieth in his discriptions of the Gracian and Troiss fights.

The skilfull Cheef-taines pressed on guiding with carefull eie Their Armed troupes, who followed their Leaders filently. Tou surely would have deem'd, each one of all that mighty thronge Had been bereft of feach, so brideled be his heedfull tongue, Fearing the dread Commanders checke, and awfull heft's among. Thus march's the Greekes in silence, breathing flames of high de fire, And ferment zeale, to backe their friends, on foes to wreake their ire.

As for the disorder of the Barbarians he resemblethirto birdes saying.

as sholes of fowle, geefe, cranes, and swannes with necks far stretched out, Which in the stoney fennes Causters winding streames about Sheare bere, and there, the liquid skie, forting on wanton wing. Then fall to ground with clanging noise, the fennes all over ring: None otherwise the Troians fill the field with heaped sounds Of broken, and confused cries, each where tumuls abounds.

And againe:

The Captaines mar [ball out their Troupes ranged in goodly guise; And foorth the Troians pace like birds, which lade the aire with cries. Not fo the Greekes, whose stence breathed flames of high defire, Fernent in neale to back their friends, on foes to wreake their ire.

The words of Command

CHAP. LIIII.

Thus then are we to command.

O your Armes. Stand by your Armes. Cariage away from the battaile. Marke your directions. Seperate your felnes. Aduance your Pikes. File and ranke your felues. Looke to your Leader. Reare Commander order your file. Keepe your first distances. b Faces to the Pike, moue a little further, stand so, as you were 6 Faces to the Target, moue a little further, stand so. b Faces about to the Pike, mone a little further, standso. c Double your Depth. To your first posture. Eferecap.34 c Double your Length. To your first posture. d The Lacedemonian counterwarch. To your first posture. d Before cap. 28. d The Macedonian countermarch. To your first posture. d The Chor aan countermarch. To your first posture. e Battaile wheele to the Pike. To your first posture. e Battaile wheele about to the Pike. To your first posture.

These precepts of the Art Tatticke (most invincible Casar) I have laide out to our Marie, which will be a meanes of fafety to such, as shall vie them, and of he ouerthrow of their enemies.

151



THE EXERCISE OF THE ENGLISH IN

the service of the high and mighty Lords, the Lords the Estates of the vnited Provinces in the Low COUNTRIES.



Lee teather in

H z Soldiers are divided into two kindes, Foote and Horfe. The

Pikemen are armed with a head-peece, a Curace and Tafes defensive, and with a Pike of fifteene foote long, and a Rapier offensive. The Armour is all yron; the Pike of Ashen wood for the Steale, and at the vpper end an yron head of about a handfull long with checkes about the length of two soon, and

at the butt-end a round strong socket of yron ending in a pike, that is blunt, yet sharpe enough to fixe to the ground. The forme thereof is expressed in the grauen figure.

The Muskeiter hath a head-peece for defence, a Muskei, the barrell of the length of 4 foote, the bore of 12 bullets to the pound; a Bandelier, to which are fathed a convenient number of charges for powder (sometimes as many as 15 on 16) a lether bagge for bullets, with a pruning yron; a Reft for the Musket with an yron forke on the vpper end to support it in discharging, and a pike on the nether end to sticke into the ground; lastly, a Rapier. The figure of this armour also is here inferred.

These soldiors, both Pike-men, and Musketiers, are divided into Companies; and every Company consisteth, halfe of Pikes, halfe Musketiers. The Companies are some more in number, some lesse. Some reach to 300 men, some 200, some 100, some 80, some 700. Every Company hath these officers of the field: A Captaine, a Lieutenant, an Ensigne, a Scrieants, 3 Corporalis, two Drommes; and for other vies a Clerke, a Surgion, and a Provost.

Companies are compacted into Regiments; and the Regiments commanded by Coronells. Regiments conteine not alwaies a like number of Companies, fome having 10, fome 11, 12, 13, 14, 15, fome 30 Companies and above. In energy Regiment are a Coronell, a Lieutenant Coronell, a Sericant Maior, all officers of the field; a Quarter-mafter, and a Prouoft-martiall for other imployments. It shall not be greatly to the purpose to mention higher officers, then Coronells, my principall intent being no other, then to set downe the armes and exercise of our Nation in the said vnited Provinces. Their armes are spoken of. Their exercise followes.

The Exercise of a foo!e Companie.

Inthe both Pikes and Muskets are ordered into files of 10 deepe. The Musketiers are sometime placed before, sometime in flanke, sometimes in the reare

To exercise the motions, there are two distances to be observed.

The first is when every one is distant from his fellow 6 toote square, that is in

The second is when enery Souldier is 3 soote distant one from the other aswell

in file, as in Ranke.

And because the measure of such distances cannot be taken so justly by the eye, the distance of 6 foot betwirt the files is measured, when the Souldiers stretching out their armes doe touch one an others hands: and betwixt the Rankes, when the ends of their pikes come well night to the heeles of them, that march before. And the measure of 3 foote betwixt the files is, when their elbowes touch one another; betwixt the rankes, when they come to touch the ends of one anothers Rapiers.

For to march in the field, the distance of 3 foote from file to file is kepr, and of

6 foote from Ranketo Ranke.

To order themselves in Battaile, as also to goe towards the enemy, the distance of 3 foote in file, and ranke, is observed; and likewise to conversion or

The Mulquettiers also going for to shoote by Rankes keep the same distance of wheeling. 3 foot, but going to skirmish they goe ala Disbandade, which is out of order.

There is yet another fort of distance, which is not vsed, but for to receive the enemy with a firme stand, and serueth for the pikes onely (for the Musquettiers cannot be so close in files, because they must haue their Armes at liberty) & that is, when every one is diffant from file to file a foote and a halfe, and 3 foote from Ranketo Ranke. And this last distance is thus commanded, Close your seines throughly. But it is not to be taught the Souldiers, for that, when necessitie shall require it, they will close themselues but too much, of their owneaccord without command.

To begin therefore to doe the exercises, the Company is set in the first distance, to wit of 6 foote in file, and ranke, and thus is faid

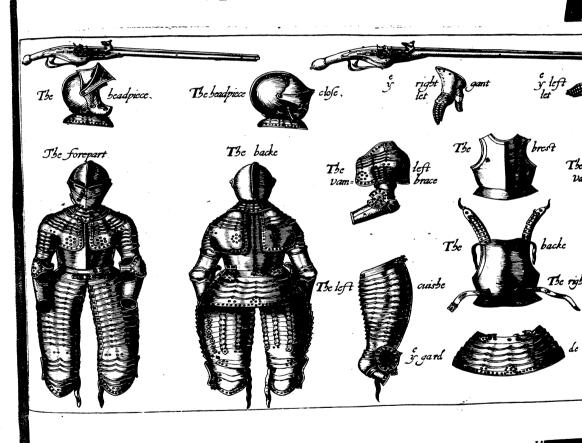
These are the generall words of Command Stand right in your files. Stand right in your rankes. which are often to be vled. Silence.

To the right hand. Asyou were.

To the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left handabout. To the right hand as you were. You must note, that when they are commanded to be as they were, they must returne thither, from whence they parted; and if they turned to the right hand , they must returne to the left, and fo in countermatch.



Charge

To

The Exercise of a foote Companie.

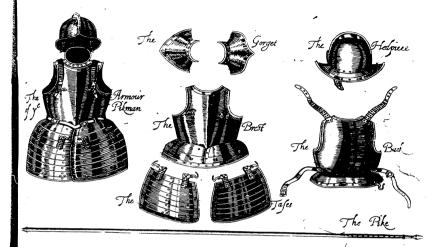
First both Pikes and Muskets are ordered into files of 10 deepe. The Musketiers are sometime placed before, sometime in flanke, sometimes in the reare of the pikes.

To exercise the motions, there are two distances to be observed.

The first is when every one is distant from his fellow 6 toote square, that is in

file and The in file, 2 And the diff out the the end And th anothe thers R Fort 6 foote To ftance: wheeli The 3 foot, Thei enemy cannot is, whe from F through. require comm Tol stance. Stand. Stand Sileno Tothe Asyon Toth As yo Toth Toth Toth

Toth



mijemine al 2 lane in 1000 3 mine nes eseles

To the right hand wheele.

Open your Rankes backwards in your double distance to wit at 12 foote, and this for a single Company.

Rankes as you were, fe. at the first.

In opening Rankes or Files, you must keepe them closed vntill the second Ranke or File beginning from the outsides have taken their distances, and so shall the rest remaine close vntill every Ranke or File have taken their distances in order.

Open your files, to wit to the first distance of 6 foote.

If you will command to close files to the right hand or left hand, the outmost file standeth fill, and the rest close to that file.

For the Pike with a firme stand.

Advance your Pikes. Order your Pikes. Slope your Pikes.

Charge

is, whi from P shrough require comm To Rance Stand Stand Silenc To the Asyo Toth As yd Toth Teth

To the right double your rankes. Rankes as you were.

To the left hand double your rankes. Rankes as you were.

To the right hand double your files. Files as you were.

To the left hand double your files. Files as you were.

With halfe files to the right hand double your Rankes-Halfe files as you were.

With halfe files to the left hand double your Rankes. ... Halfe files as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right hand or left at discretion as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

To the right or left hand as you were.

Close your Files
Close your Rankes
Close your Rankes

Vinderstand that in Closing from the autifides to the middle the Soldier is softend in his distance of 3 foote in file, and not closer.

To the right hand wheele.
To the left hand wheele.

Open your Rankes backwards in your double diffanceso wit at 12 foote, and this for a lingle Company.

Rankes as you were, fe. at the first.

In opening Rankes or Files, you must keepe them closed vntill the second Ranke or File beginning from the outsides haue taken their distances, and so shall the rest remaine close vntill every Ranke or File haue taken their distances in order.

Open your files, to wit to the first distance of 6 foote.

If you will command to close files to the right hand or left hand, the outmost file thandeth fill, and the rest close to that file.

For the Pike with a firme stand.

Advance your Pikes. Order your Pikes. Slope your Pikes.

Charge

Charge your Pikes. Order your Pikes. Traile your Pikes. Cheecke your Pikes.

More for the Pikes first with a firme fland and then marching.

Charge your Pikes.
Slope your Pikes.
To the right hand charge your Pikes.
Slope your Pikes.
To the left hand charge your Pikes.
Slope your Pikes.
Charge your Pikes.
Charge your Pikes.
Order your Pikes.
Order your Pikes.

This must be observed charging your Pikes with a firme stand to set the right fact behind, and charging the Pikes marching to set the left foote before.

For the Musquet.

He Postures in his Excellencies Booke are to be observed; but in exercising you must onely vie these three termes of direction.

Make ready. Present. Giue fire.

Your Musquettiers must observe in all their motions to turne to the right hand, and that they carry the mouth of their perces high, aswell when they are shouldred, as in pruning, and also when they hold their pannes garded, and come up to give fire.

In advancing towards an Enemy, when they doe not skirmish loose and dis-

banded, they must give fire by Rankes after this manner.

Two Rankes must alwaies make ready together, and advance ten paces forward before the body, at which distance, a Sergeant (or when the body is great some other officer) must stand, to whom the Musquettiers are to come up before they present, and give sire, first the sirst tranke. And whilest the first gives sire, the second Ranke keepe their Musquets close to their Ress, and their pannes garded, and associate the first are fallen away, the second presently present, and give sire, and fall after them.

Now affoone as the first two Rankes doe moue from their places in the front: The two Rankes next them must vnshoulder their Musquets, and make ready, so as they may aduance forward ten paces as before affoone as ever the two sinst rankes are fallen away; and are to doe in all points as the former. And all the other Rankes through the whole division must doe the same by twoes, one after

another.

A manner

A manner there is to give five retyring from an Enemy, which is performed after this fortt.

As the Troope marcheth the hindermost ranke of all keeping still with the Troope is to make ready, and being ready, the souldiers in that ranke turne alto-Therachy in gether to the right hand and give fire, marching presently away a good round the Roome, pace to the front, and there place themselves in ranke together suft before the front: As soone as the first ranke turne to give fire, the ranke next makes ready, and doth as the former, and so the rest.

We give fire by the flanks thus. The vppermost file next the Enemy must be Thermany is commanded to make ready, keeping still along with the body, till such time, as flank, they be ready, and then they turne to the right, or less thand (according to the sight of their enemies either vpon the right, or less flanke) and give fire altogether. When they have discharged they stirre not, but keepe their ground, and charge their Peeces againe in the same place, they stand. Now as soone as the foresaid file doth turne to give fire, the vttermost next it makes ready as wies keeping along with the Troope till the Bringer-up be past a little beyond the Leader of that file, that gave fire last; and then the whole sile must turne, and give fire, and doe in all points as the first did, and so the rest one after the other. A Sergeant, or if the Troope be great some other better qualified Officer must shand at the head of the sist so lead soward the sirst sile econd sile hath given fire, and hath charged, he is to lead forward the first sile vp to the second sile, and so to the rest one after another, till he hath gathered vp agains the whole wing, and then he is to ioyne them againe in equal from with the pikes.

Last of all the Troope or whole wing of Musquettiers makes ready altogether, The enemy in and the first ranke without advancing gives fire in the place they stand in, and from speedily, as may be, yet orderly falls away, all the rankes doing the fame successive without advanly one after another.

Thus much of the armes and exercise of the foote.

The horse ensue.

The order and discipline bolden in Horse-proopes, or in the Covalry.

HE Canalry hath for his Cheife the Generall, the Lieutenant Generall, and the Comiffary generall.

To the Cavalry there is a Quarter-master generall, and a Propost generall belonging; the Institute resorted to the Councell generall of warre of the Army.

The Cavalry is of two forts. Har quebufiers, and Carafiers.

The first haue for defensine armes, the Curace pistoll proofe, and a light headpeece. For offensive the Carbine of 3 soote, 3 inches length, and the bote of 20 bullets in the pound, and Pistolls like vnto the Curassers.

The Curafiers have for defensive Armes a compleat armour, the Curace piscoll proofe. For offensive two piscolls having the barrell of 26 inches in length, and the bore of 36 bullets in the pound. See the figure of Armes.

For the order in Regiments the 40 Companies entertained by the States doe make cleuen Regiments.

The Regiment of the Generall hath alwaies the Vantgard, the othersalter-

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natively and by turnes, and he that hath it this day, the next day after hath the Reare, the rest following in the same sort.

Those which command the Regiments are called Coronells. The Regiments are compounded of 3, or 4 Companies (of 3 at the least) and the Coronells Company marcheth alwaies on the left wing of the Regiment.

The Captaines receive orders from their Coronells, as these from the Com-

missary Generall.

All the Companies are divided in 3 equall parts, which are called Squadrons, and diffributed to the three chiefe officers; Captaine, Cornett, and Lieutenant, having each of them adioyned an old Souldier, which they doe know to bee of more defert, called a Corporall.

Marching in the field, euery Officer marcheth at the head of his Squadron, the Lieutenant excepted, which marcheth behind with the Quartermaster; and the

third Corporall at the head of the Lieutenants Squadron.

The Companies are divided by files, and rankes, the file 5 deepe, and no more, how strong soeuer the Company be.

They observe that in marching in battaile they must be close together, and to doe the Motions there must be 6 foote distance from one Horseman to another.

The Companies being in battaile, there must be 25 paces distance left between every Company, and 50 betwirt every Regiment at the least.

The exercise of Armes for the Cavalry.

To open the Squadron you must first open the rankes and after the files.
To close the Squadron, you must first close the files, and after the rankes.
There be two sorts of distances betwitt the files; the one close, and the other

In the Close there must be no distance or intervalls betwixt the files, to the

open there must be 6 foote betwixt enery file.

Likewise there must be two sorts of distances betwist the rankes; the Close, which must be without intervall or streete; and the Open, which must be six soote distance.

In a march it must be vnderstood, that the rankes must never be more opened,

then the open distance of 6 foote.

And to the end that the Troope may march in good order, and observe well their distance betwith the rankes, without that the last may be forced to runne or goe to fast, there must be heed taken, that so soone, as the sirst rankes begin to march, all the Troope, and the Reare also at one time march.

The words of Command are

Open your Rankes.
Open your files.

Stand right in your rankes.
Stand right in your files.

To the right hand.
As you were.

So the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left hand about. To the right hand as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right or left hand as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

Close your files. Close your rankes.

To the right hand wheele. To the left hand wheele.



Faults escaped in the Booke.

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